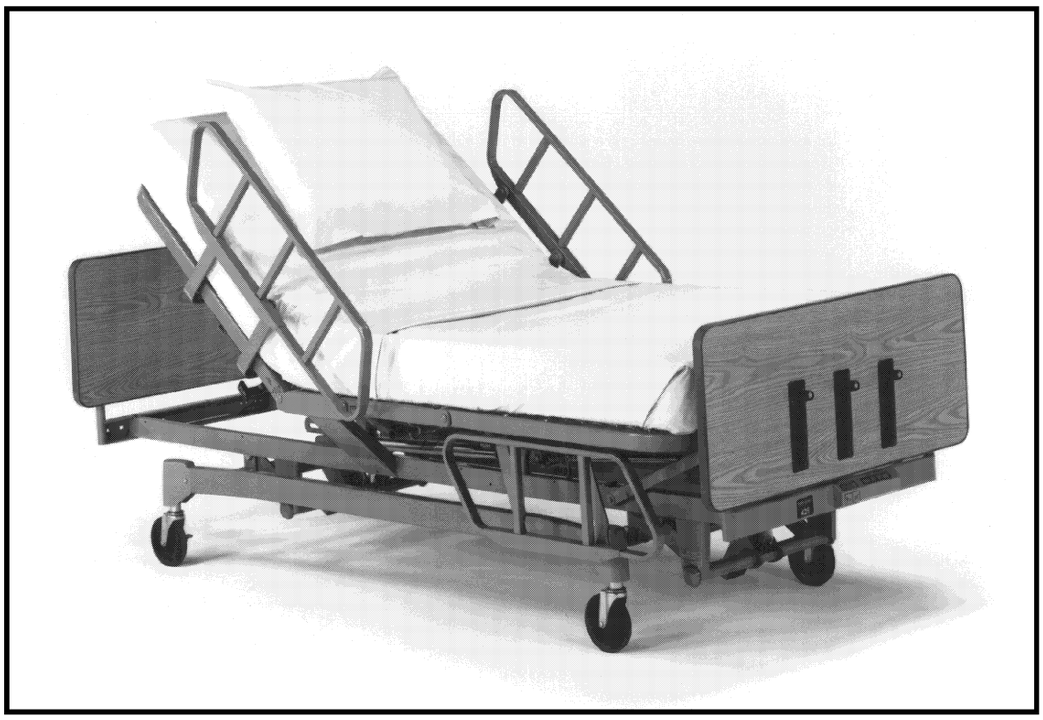
SERVICE MANUAL

Manual
Hi-Lo Bed
From Hill-Rom®



Product No. P425

For Parts Or Technical Assistance
USA 1-800-445-3720 Canada 1-800-267-2337

man077

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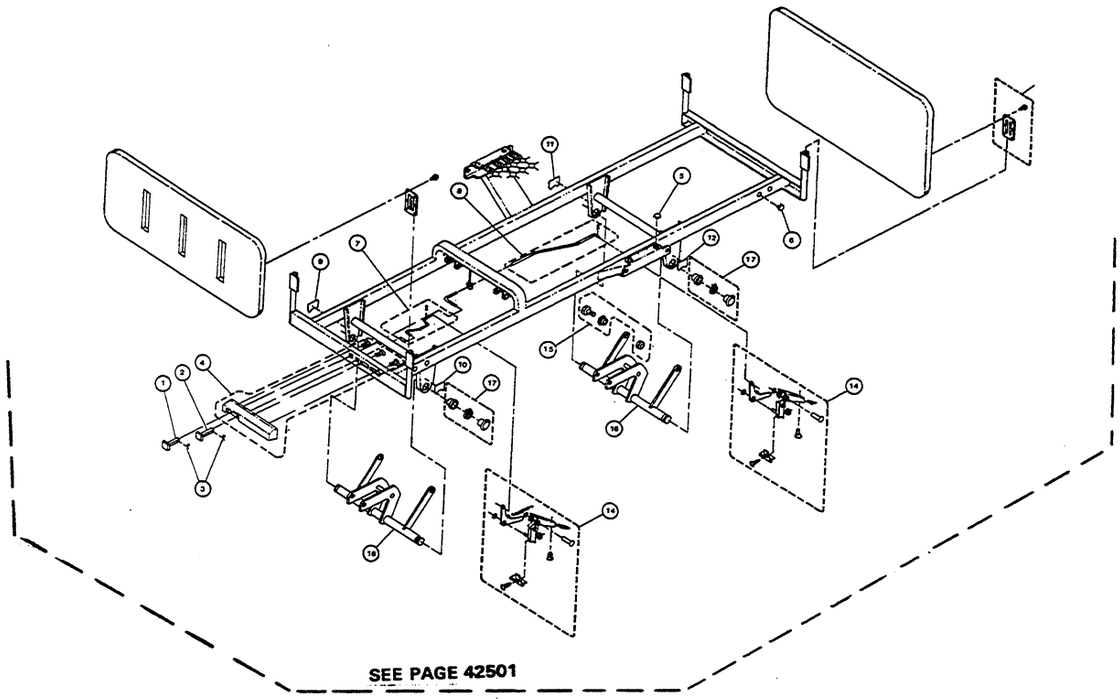
425 BED PARTS LIST
HILL-ROM COMPANY INC.
BATESVILLE, IN. 47006



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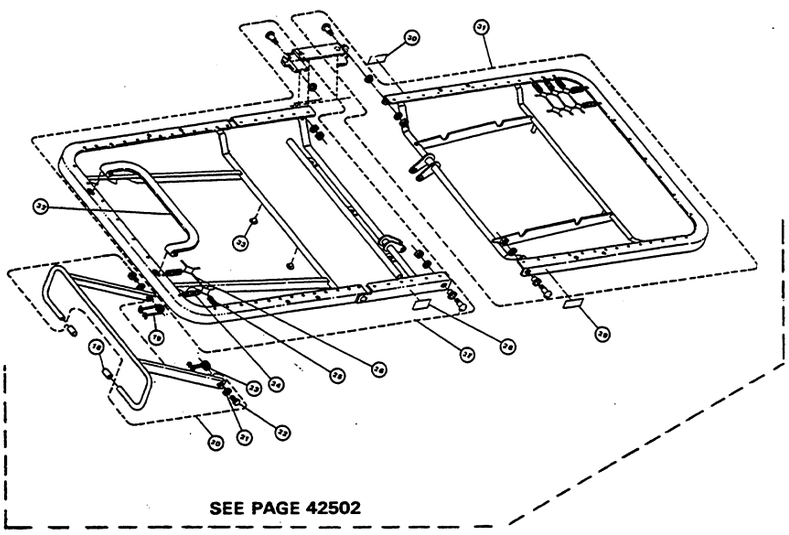

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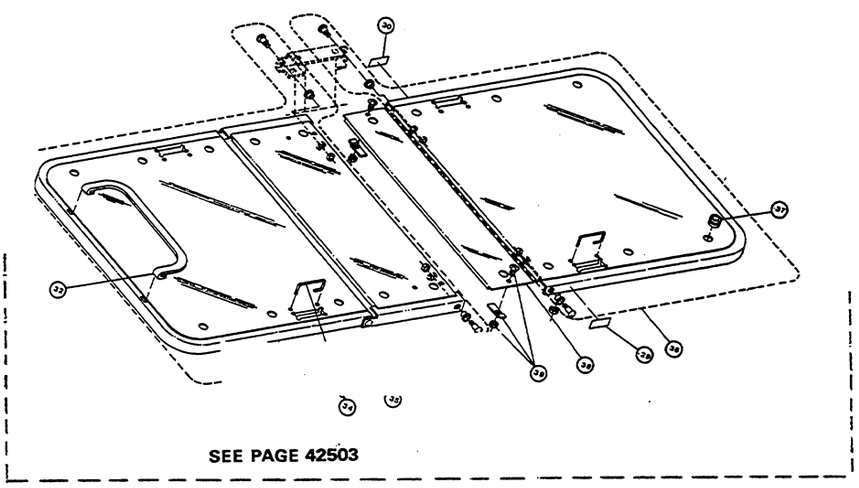

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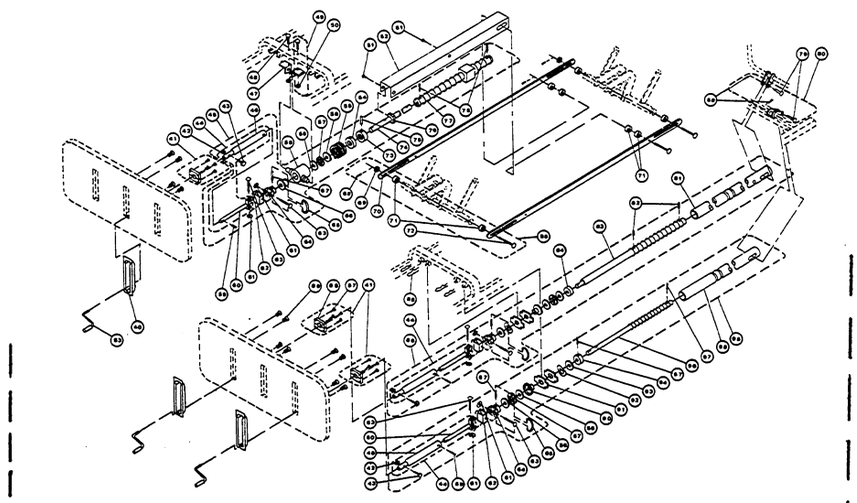
425 BED PARTS LIST
HILL-ROM COMPANY, INC.
BATESVILLE, IN. 47006



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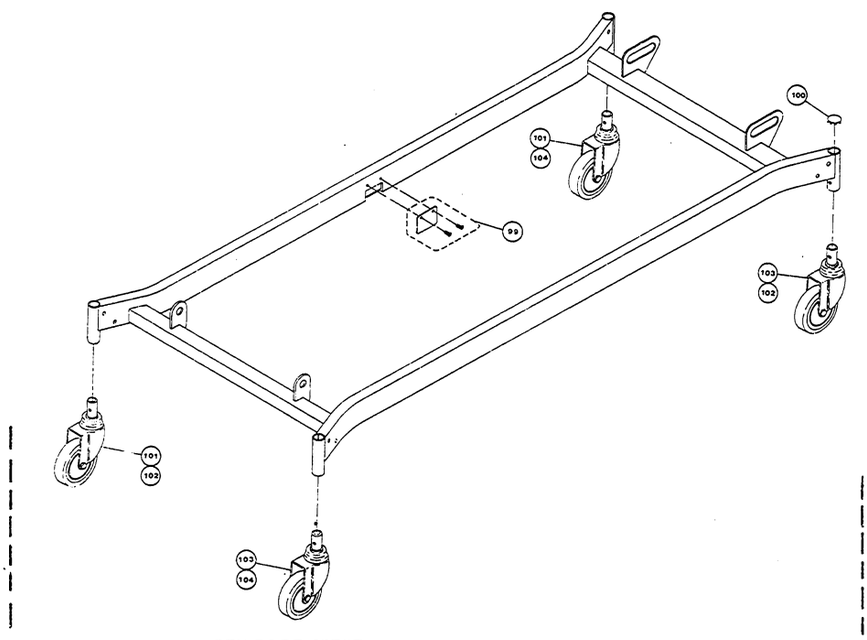

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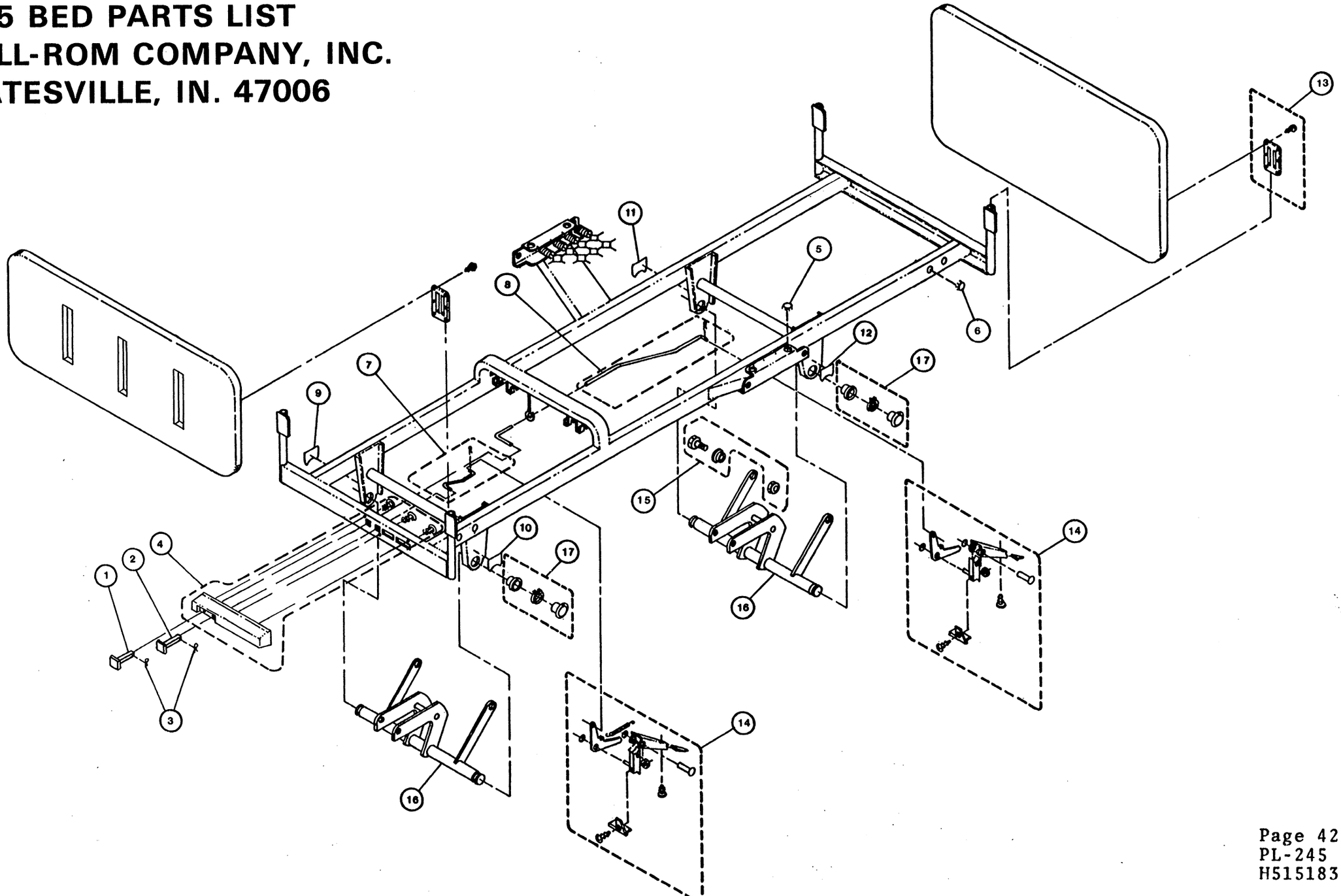

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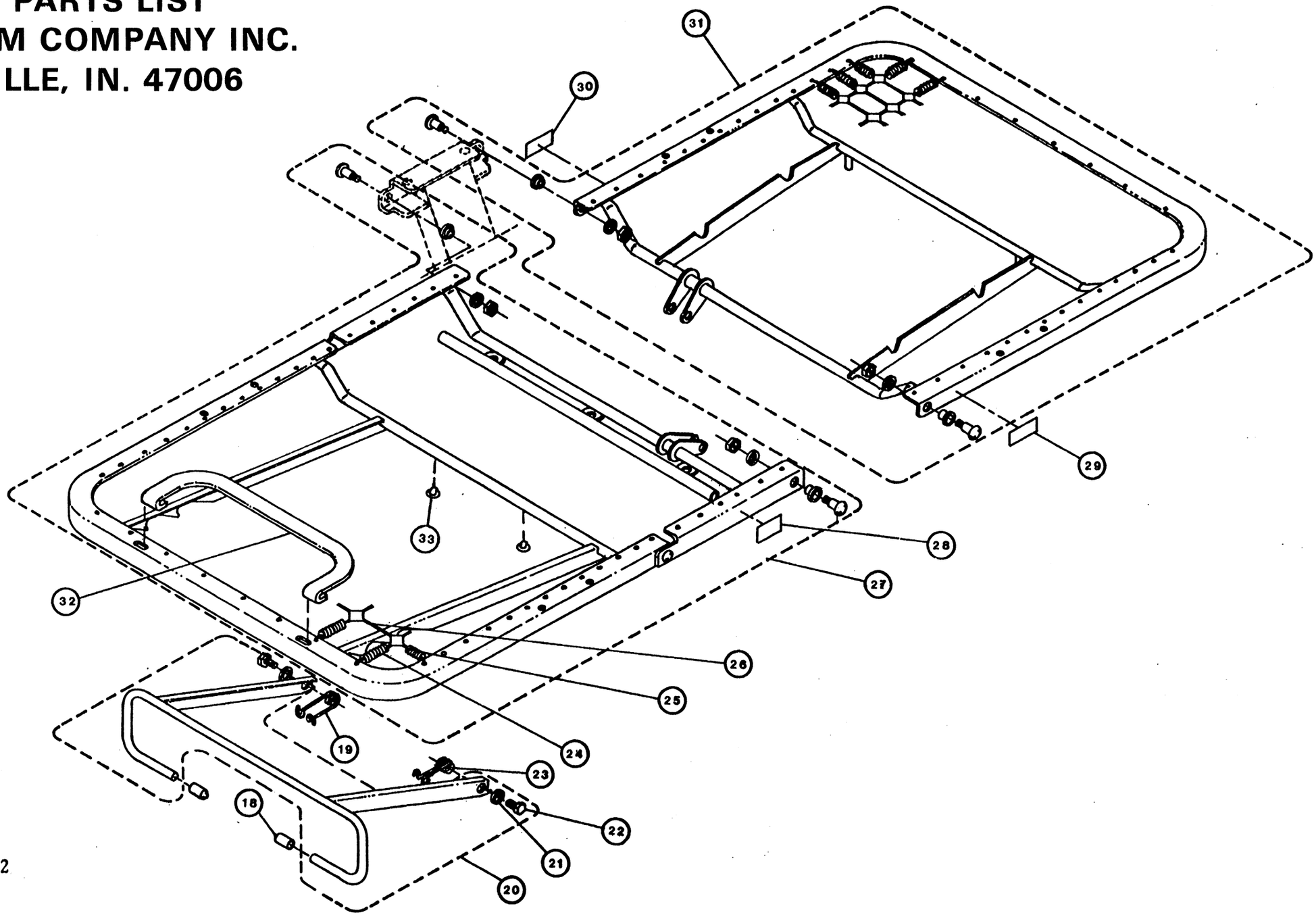

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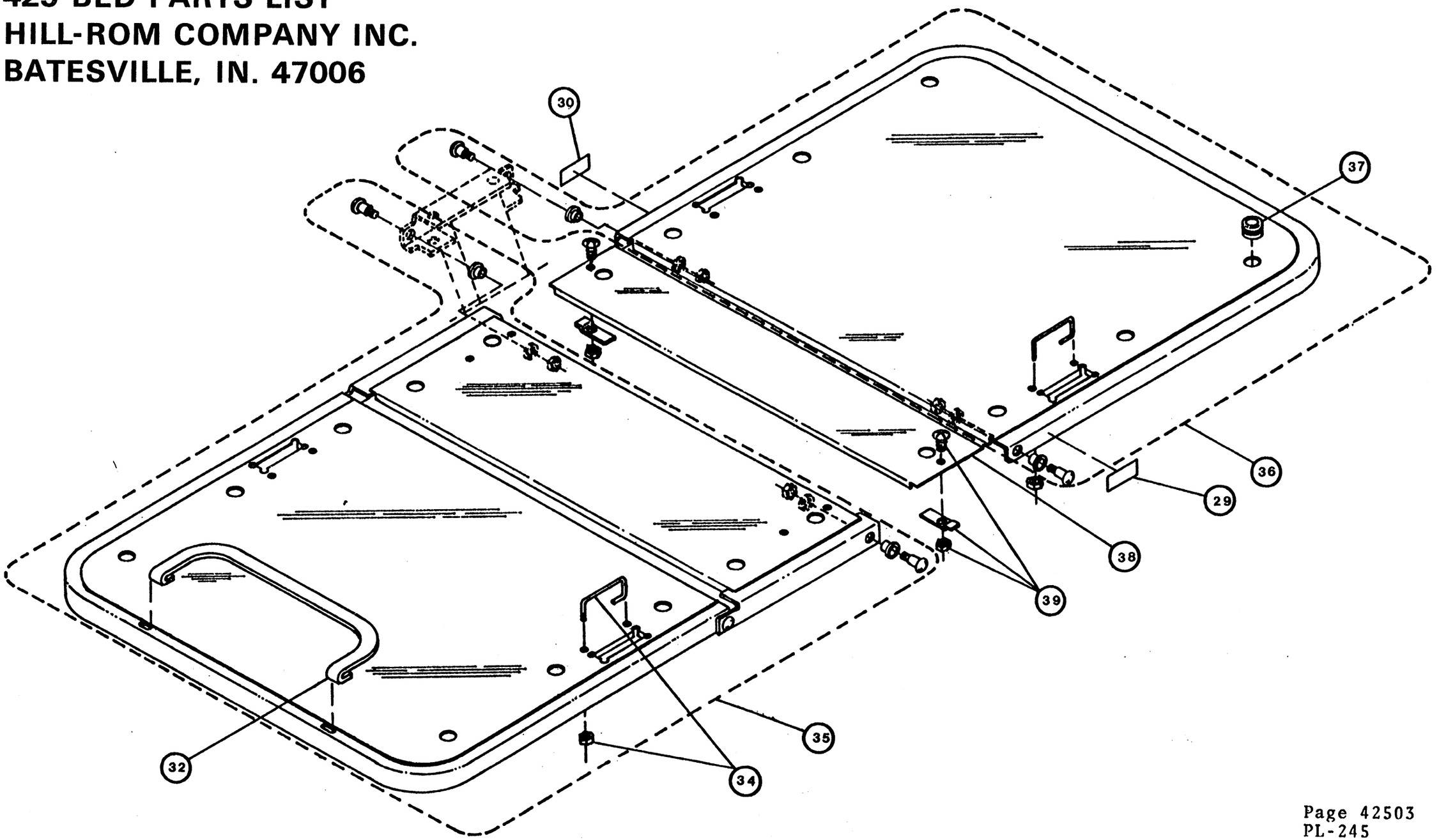

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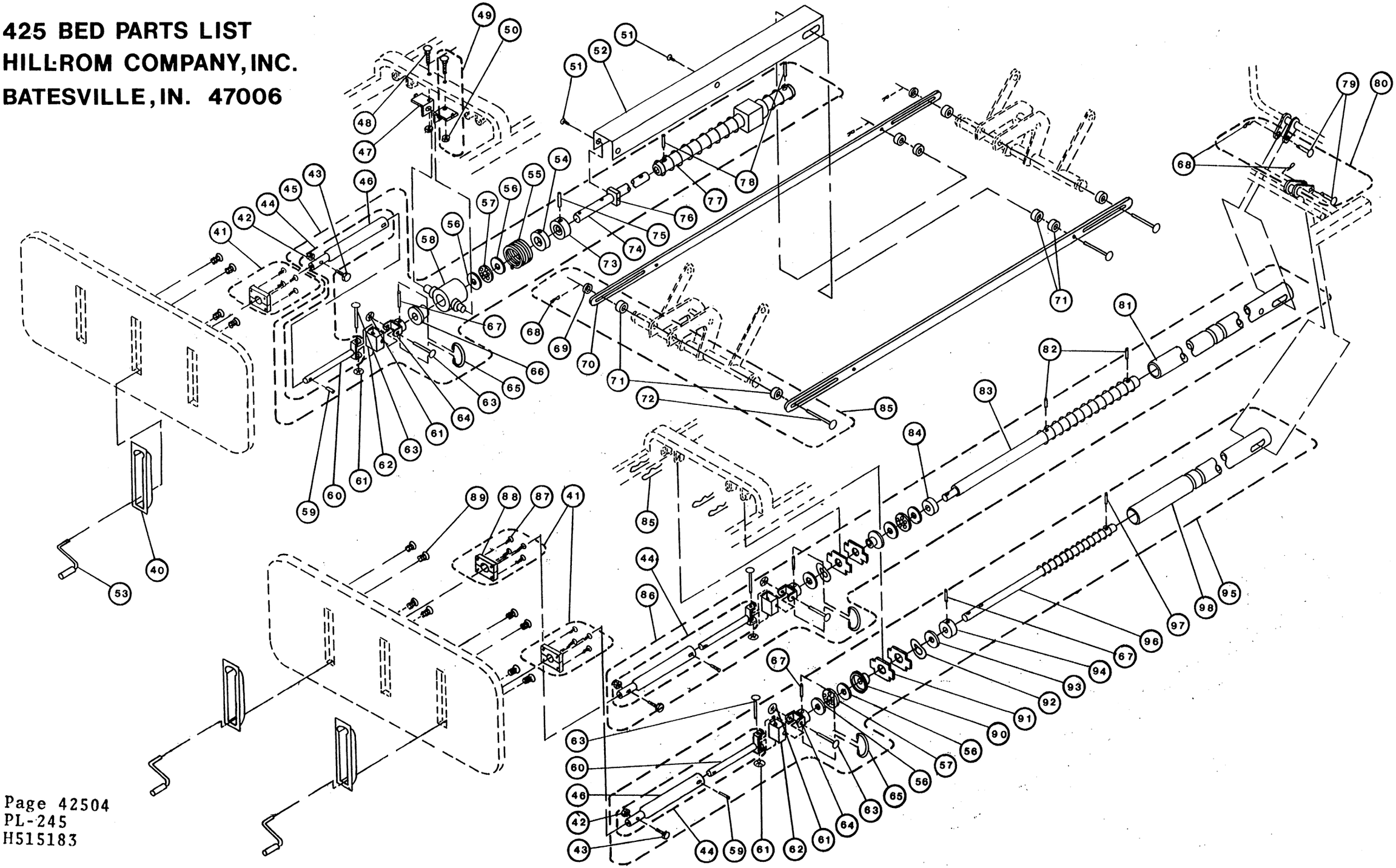
BATESVILLE, IN. 47006



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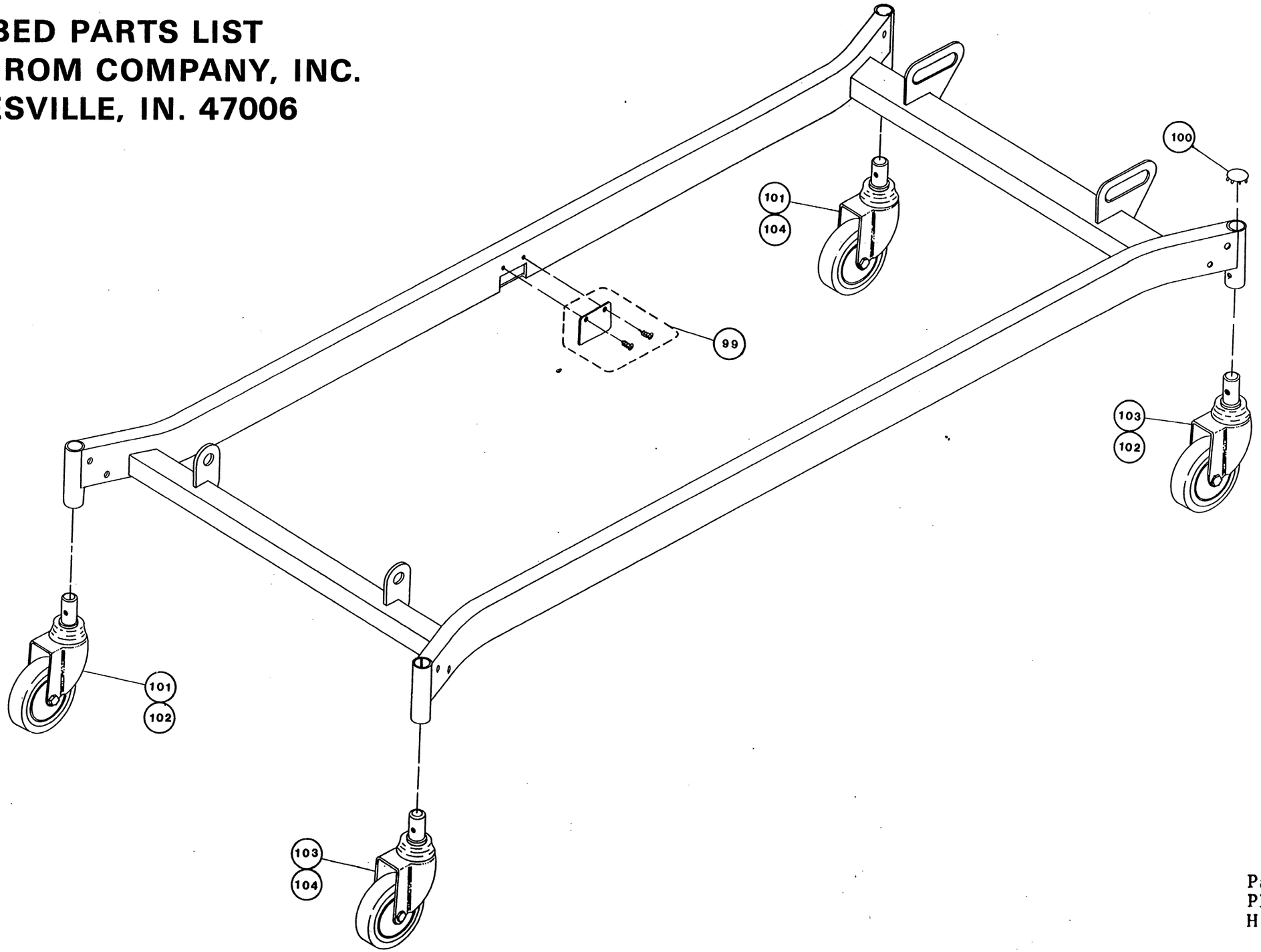


HI-890-245
For Model 425 Bed
Reference Print No. PL-245

HILL-ROM COMPANY, INCORPORATED
Batesville, Indiana 47006

ITEM #	PART #	DESCRIPTION
1	24710	Trendelenburg knob
2	24709	Reverse Trendelenburg knob
3	11094	Cotter Pin
4	SA01011	Nurse control housing, screw (3)
5	33357	Push button
6	33358	Push button
7	SA01069	Trendelenburg rod, cotter pin
8	SA01070	Reverse trendelenburg rod, cotter pin
9	28414	Degree label
10	28417	Inch label
11	28418	Degree label
12	28422	Inch label
13	SA0956	Panel bracket, screw (6)
14	SA0959	Trendelenburg ass'y, push nut (2), spring, stop, tip, screw, rivet, mount
15	SA01184	Shoulder bolt, bushing, lockout
16	32621	Lower lift arm assembly
17	SA01169	Pointer, bushing, retainer ring
18	33005	Sleeve
19	19528	Spring R.H.
20	SA01172	Foot rack ass'y, shoulder bolt (2), bushing (2)
21	3869	Bushing
22	9936	Shoulder bolt
23	33047	Spring L.H.
24	12625	Helical
25	242	Helical
26	12084	Fabric assembly
27	SA01171	Foot & thigh section assembly, shoulder screw (2), bushing (2), washer (2), nut (2)
28	26093	IV storage label
29	24772	Head elevation label
30	25351	Head elevation label-R.H.
31	3869	Bushing
32	31185	Mattress stop
33	33346	Button
34	SA0918	Restraint bracket, locknut
35	SA01174	Hard pan foot & thigh section assembly, shoulder bolt (2), bushing (2), washer (2), nut (2)
36	SA01173	Hard pan head section assembly, shoulder bolt (2), bushing (2), washer (2), nut (2)
37	12951	Grommet
38	29258	Seat pan
39	SA0917	Lock, bolt, kepnut
40	24594	Crank insert

ALL SHIPMENTS F.O.B. BATESVILLE, INDIANA
MINIMUM ORDER $40.00
ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE
SHIPMENT TO BE MADE VIA "BEST WAY" UNLESS OTHERWISE INSTRUCTED

H515183

HI-890-245
For Model 425 Bed
Reference Print No. PL-245

HILL-ROM COMPANY, INCORPORTATED
Batesville, Indiana 47006

ITEM #	PART #	DESCRIPTION
41	SA01015	Crank guide (2), screw (4)
42	755	Nut
43	9935	Screw
44	27510	Crank drive assembly
45	27513	Manual hilow screw assembly
46	28799	Crank drive
47	24529	Hilow mount
48	24764	Bolt
49	SA01012	Screw, hilow mount, nut
50	9428	Nut
51	10866	Screw
52	24527	Channel
53	28727	Crank assembly
54	24537	Drum floating brake
55	24531	Brake spring
56	11579	Thrust race
57	11578	Thrust bearing
58	24539	Trunion block assembly
59	27509	Roll Pin
60	27437	Yoke & rod assembly
61	17291	Push nut
62	24549	Universal joint
63	24544	Rivet
64	24547	Universal collar
65	11873	Roll pin retainer
66	18873	Bushing
67	142	Roll Pin
68	11338	Cotter pin
69	10902	Washer
70	24488	Strap
71	24497	Spacer
72	24496	Clevis pin
73	24532	Thrust collar
74	24533	Extension rod
75	24633	Roll pin
76	24530	Guide
77	24520	Manual hilow screw
78	3517	Roll pin
79	4453	Clevis pin
80	SA0983	Clevis pin (2), cotter pin (2)
81	24543	Tube & nut head
82	128	Roll pin
83	24550	Head screw

ALL SHIPMENTS F.O.B. BATESVILLE, INDIANA
MINIMUM ORDER $40.00
ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE
SHIPMENT TO BE MADE VIA "BEST WAY" UNLESS OTHERWISE INSTRUCTED

H515183

HI-890-245
For Model 425 Red
Reference Print No. PL-245

HILL-ROM COMPANY, INCORPORTATED
Batesville, Indiana 47006

ITEM #	PART #	DESCRIPTION
84	24548	Spacer
85	24556	Hair pin
86	33342	Head screw assembly
87	24816	Screw
88	24600	Crank guide
89	24810	Screw
90	31648	Bearing
91	32589	Mounting plate
92	31556	Wave washer
93	12860	Washer
94	2796	Collar
95	33343	Knee screw assembly
96	31644	Knee screw
97	142	Roll pin
98	24541	Tube & nut knee
99	SA01181	Cover, screw (2)
100	24771	Leg plug
101	25636	Tente steer caster
102	33023	Black plain swivel caster
103	25635	Tente total lock caster
104	33024	Black total brake caster

ALL SHIPMENTS F.O.B. BATESVILLE, INDIANA
MINIMUM ORDER $40.00
ALL PRICES SUBJECT TO CHANGE WITHOUT NOTICE
SHIPMENT TO BE MADE VIA "BEST WAY" UNLESS OTHERWISE INSTRUCTED

H515183

USING THE PARTS LIST

The two pages immediately following the index consist of four small drawings each showing particular sections of the bed. They are intended to be quick reference pages set up for your convenience in identifying parts.

With a particular part in mind, locate it on one of the eight drawings and refer to the page number corresponding to that drawing. You will find the same drawing only in a blown-up format. Again find your part and locate the balloon that corresponds to your part or to a dotted line that surrounds yours and other parts.* Inside the balloon is an item number that can be found on the list of item numbers immediately following the blown-up drawings. Next to the item numbers you will find the part number and the description of the part you have in mind.

EXAMPLE: If you were looking for the part number of the leg plug for the base system, scan through the quick reference drawings, find the base drawing and then turn to page 42505. Locate the leg plug and the associated item number balloon, which in this case is item number 100. Look this item number up in the list of item numbers and you will find that the part number is 24771 LEG PLUG. This would be the number you would order for a leg plug.

*As a convenience to our customers, Hill-Rom provides "Service Assemblies", which is a group of parts sold under one part number. We indicate these "Service Assemblies" with a dotted line around the group of parts on the drawings.

ORDERING SERVICE PARTS

There are several ways to order service parts from Hill-Rom. One is to contact your local Hill-Rom Sales Representative. Another is to phone the Hill-Rom Co. "Customer Service Department" direct.

Please have the hospital purchase order number available when ordering parts.

For hardware items, we normally require (24) hours to process service orders. For wood parts however, it will take somewhat longer due to the fact that we rarely stock wood parts (finished). Therefore (4) to (5) weeks is a more realistic time span to consider when ordering replacement wood parts.

We normally ship service orders by U.P.S. However, we will ship by air or any other way you would like us to ship.

We also require a $25.00 minimum order for service parts.

IN WARRANTY EXCHANGE

In the event a part is defective within one (1) year of the date of delivery of the product, contact Hill-Rom's Customer Service Department and Hill-Rom will exchange the defective part and ship the replacement.

In some cases, the invoice sent with the parts will show the full selling price of the parts. This is for internal use only and should not be confused with being a bill.

Hill-Rom will request that the defective parts be returned for inspection in some cases. If indeed Hill-Rom does request the parts, the hospital is expected to return the parts within thirty (30) days.

If the hospital fails to return the defective parts within the thirty (30) day period, Hill-Rom will invoice the hospital for the full selling price of the parts. This billing procedure pertains to parts Hill-Rom requests to be returned only.

BED SPECIFICATIONS

DESCRIPTION - This bed shall be capable of easily achieving Frame Trendelenburg, Frame Reverse Trendelenburg, and Cardiac Chair position. This bed shall be made of a combination of wood and metal. The head end panel shall be removable.

DIMENSIONS - (APPROXIMATE)

Height overall - Foot end - High position	39"
Height overall - Foot end - Low position	28"
Height overall - Head end - High position	44"
Height overall - Head end - Low position	33"
Height - Floor to top of spring - High position	30"
Height - Floor to top of spring - Low position	19"
Overall width	36 ½"
Total hilow travel	11"
Sleeping surface	36" x 80"
Overall length (without bumpers)	89"
Overall length (with Enviro-Care bumpers #819)	89 ½"
Overall length (with Roller bumpers #818 top mounted)	91 ½"
Overall length (with Roller bumpers #818 Face mounted)	93 ¼"
Weight - Bed with #2209 Casters, panels and head sideguard	240 lbs.

DRIVE UNITS - There shall be (3) individual screw drives to power the separate functions of the bed. The head drive shall be a 3/4-5 Acme screw and oilite nut combination. The knee drive shall be a 5/8-5 Acme screw and oilite nut combination. The hilow drive shall be a high efficiency ball screw and nut combination. These drives shall be designed and made especially for the individual functions they are to perform.

The crank handle assemblies shall be located at the foot end of the bed and shall be visually identifiable by international symbols. The handles shall be designed to permit easy storage of the handles when not in use.

All pivot points and elevating nuts shall be permanently lubricated by use of oil impregnated sintered bronze.

A guage indicating the degree of head elevation shall be located on both sides of the bed readily visible to operating personnel.

TRENDELENBURG OPERATION - The controls for achieving trendelenburg position shall be conveniently located in the foot end of the bed. The trendelenburg and reverse trendelenburg functions shall be accomplished by raising the bed to the high position, pulling the desired function selector identified in international symbols and lowering the bed. In conjunction with the trendelenburg feature, there are visual markers on both sides of the bed indicating the degree as well as the inches of shock position as it is being obtained.

To bring the bed out of trendelenburg or reverse trendelenburg position, raise the bed to the high position. The trendelenburg mechanisms shall automatically disengage.

(Continued on the following page)

BED SPECIFICATIONS - CONTINUED

I.V. ROD LOCATIONS - There shall be six retainers for I.V. Rod use. Two retainers are to be located in the center of the bed spring (one on each side), two at the head end of the bed (one on each side) and two at the foot end of the bed (one on each side) with all of these retainers being welded to the steel structure of the bed for rigidity, not only in I.V. Rod use, but structurally strong enough for use with the various types of fracture equipment.

CASTERS - The 2210 caster set consists of two total lock casters and two steer casters. The 2209 caster set consists of two rolling lock casters and two swivel casters. All casters shall be recessed in from the ends of the bed as well as the side of the bed to prevent accidental tripping by the attendant, patient or visitor.

The wheel base of the bed shall be 27" wide by 60 11/16" long so as to make the bed easy to transport and highly mobile.

Sleeping Surface of Beds - Hill-Rom provides two types of sleeping surfaces on our beds. The most common is the National Link Spring Fabric surface used in conjunction with the helical springs. Our other sleeping surface is Hard Pan Steel. In the case of the spring fabric beds, we have a special helical spring puller available which is used for releasing or rehooking the helical springs. The part number for this tool is SA3524.

RECOMMENDED SPARE PARTS LIST

MODEL 425 BED

QUANTITY	PART NUMBER	DESCRIPTION
3	SA0959	Trendelenburg assy.
10	24709	Trendelenburg knob (1 pkg. of 10)
10	24710	Rev. trend. knob (1 pkg. of 10)
1	25226	Nurse control housing
1	24594	Crank insert
1	SA01015	Crank guide & screw
10	24556	Hair pin (1 pkg. of 10)
10	24549	Universal (1 pkg. of 10)
10	SA01014	Rivet & push nut (1 pkg. of 10)
1	27514	Manual hilow screw assy.
1	33342	Head screw assy.
3	24519	Knob
3	23143	Push nut
1	33343	Knee screw assy.
1	31185	Mattress stop
1	18942	Touch up paint (Aerosol can)
1	SA01188	Miscellaneous parts kit

Hill-Rom feels this list should be sufficient for fifty (50) beds.

PREVENTIVE MAINTENANCE

A preventive maintenance program helps insure proper and safe operation of the bed. Hill-Rom recommends a complete preventive maintenance program be performed every two years. This helps to insure a long and productive life for the bed and will help minimize down time due to excessive wear failures.

The following preventive maintenance schedule is intended to guide the technician through a normal preventive maintenance procedure on Hill-Rom 425 and 426 beds. The following are checked with necessary adjustments made during the preventive maintenance process.

FUNCTION	PROCEDURE
Head Drive	Inspect, clean and lubricate the head drive screw.
Knee Drive	Inspect, clean and lubricate the knee drive screw.
Hilo Drive	Inspect, clean and lubricate the hilo drive screw.
Sideguards	Inspect all mounting bolts. Tighten if necessary. Lubricate all pivot points.

WHEN LUBRICATING BED DO NOT USE ANY LUBRICANT CONTAINING SILICONE ANYWHERE ON THE BED. For proper lubrication see "LUBRICATION REQUIREMENTS".

LUBRICATION REQUIREMENTS

Hill-Rom uses oilite bearings and bushings in several places throughout the bed. Oilite bearings and bushings have pores that retain oil thus giving them a self lubricating quality. However, this self-lubricating quality will be neutralized if any lubricant containing silicone is used on them or anywhere else on the bed. DO NOT USE ANY LUBRICANT CONTAINING SILICONE ANYWHERE ON THE BED.

Listed below are the lubricants which can safely be used on the bed:

1. M-1 Penetrating Oil Hill-Rom Part Number 8252 - Small bottle (Use on Oilite Bushings and Bearings)
2. Lubriplate Grease Hill-Rom Part Number 8684 - Small tube (Use on Drive Screws)
3. Teflon Spray Lubricant (Dry) Hill-Rom Part Number SA0646 - Aerosol spray can (Use Anywhere else bed Needs Lubrication)

WATER MATTRESS USAGE

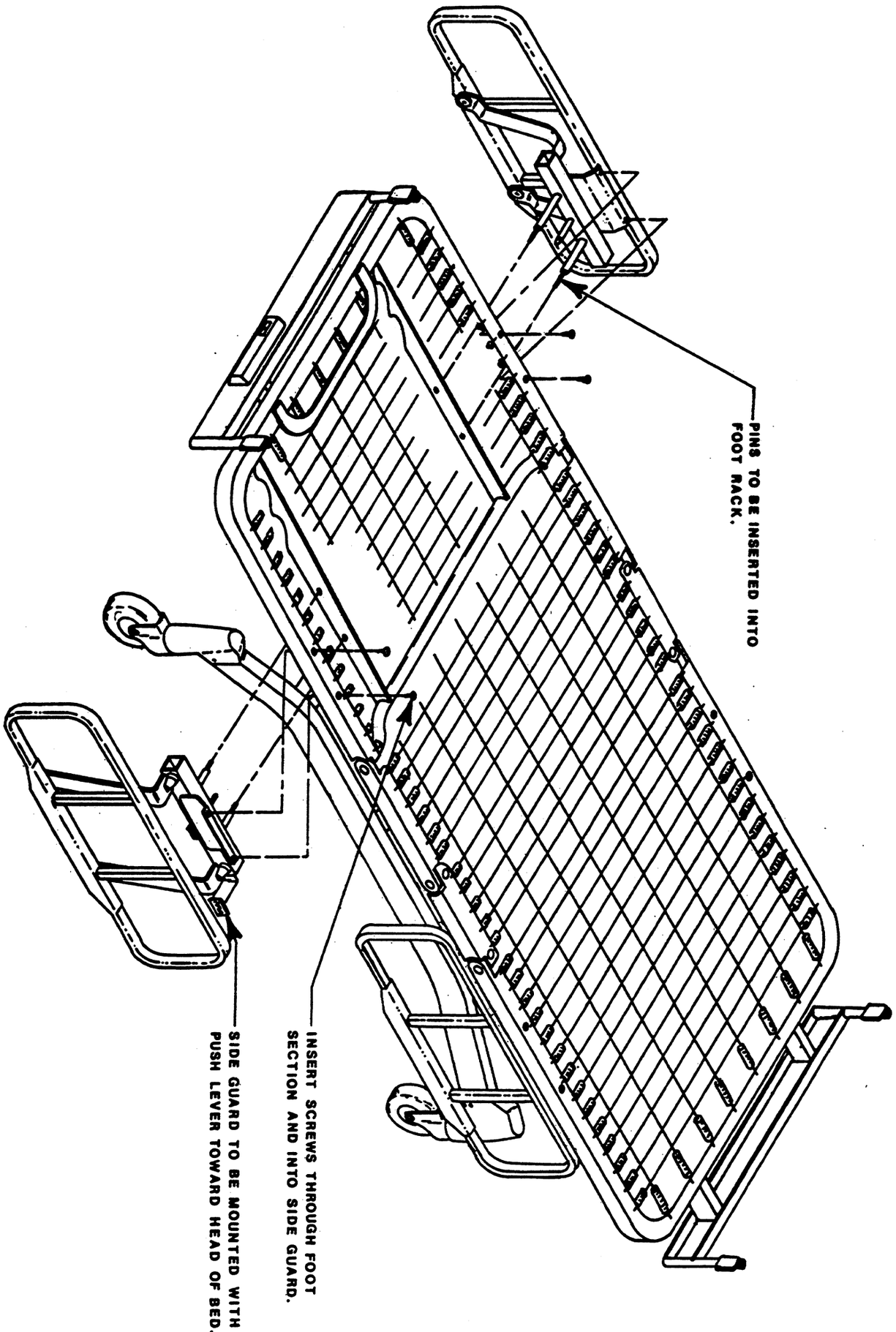
The excessive weight associated with water mattresses puts an undue stress on drive units. In most cases the patient's weight plus the water mattress weight exceeds the recommended bed capacity. We feel the excessive weight plus the possibility of rupture to be serious problems that the hospital would not want to be responsible for.

BED ENDS

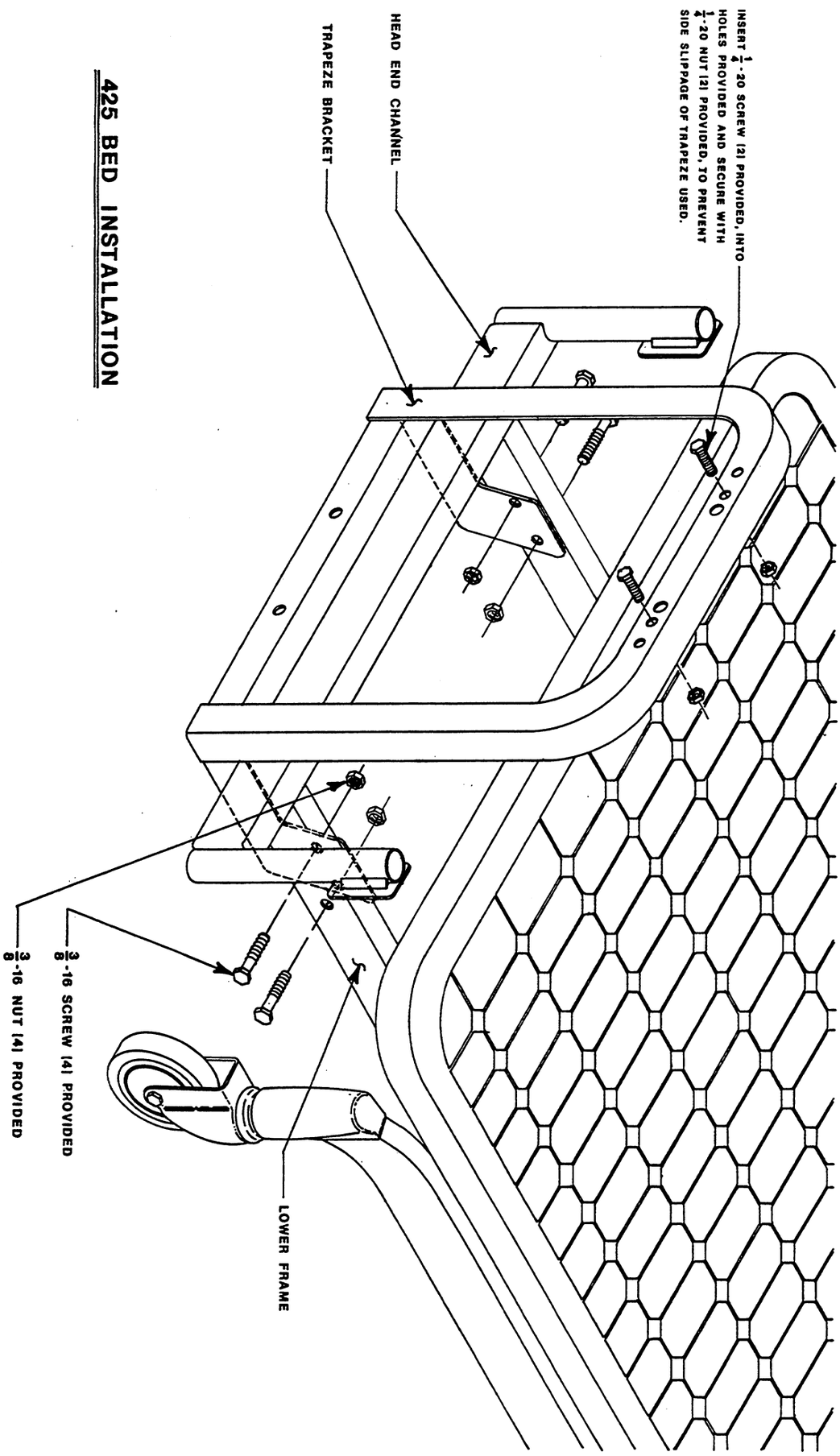
The bed ends on all 425 are bayonet type mounting. To remove, grasp the bed end on each end and lift straight up and off the bed frame.

If it becomes necessary to replace an entire bed end, please specify the wood finish when ordering. If this is not known, please send a two or three inch square of the old bed end for color matching.

SIDEGUARD ASSEMBLY INSTRUCTIONS - 325 - FOOT END

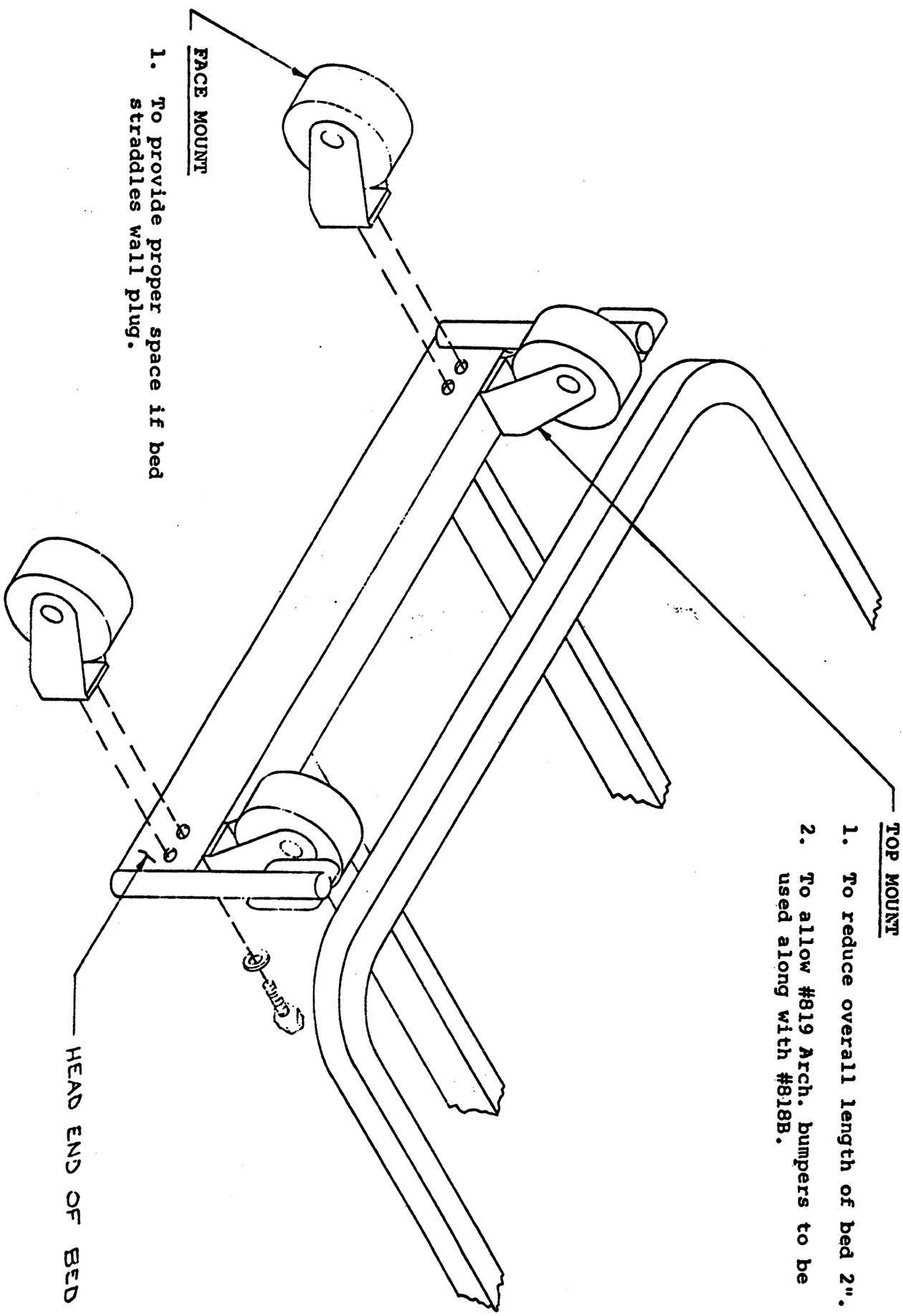

PINS TO BE INSERTED INTO FOOT RACK.
INSERT SCREWS THROUGH FOOT SECTION AND INTO SIDE GUARD.
SIDE GUARD TO BE MOUNTED WITH PUSH LEVER TOWARD HEAD OF BED.

TRAPEZE SUPPORT ASSEMBLY INSTRUCTIONS - 846

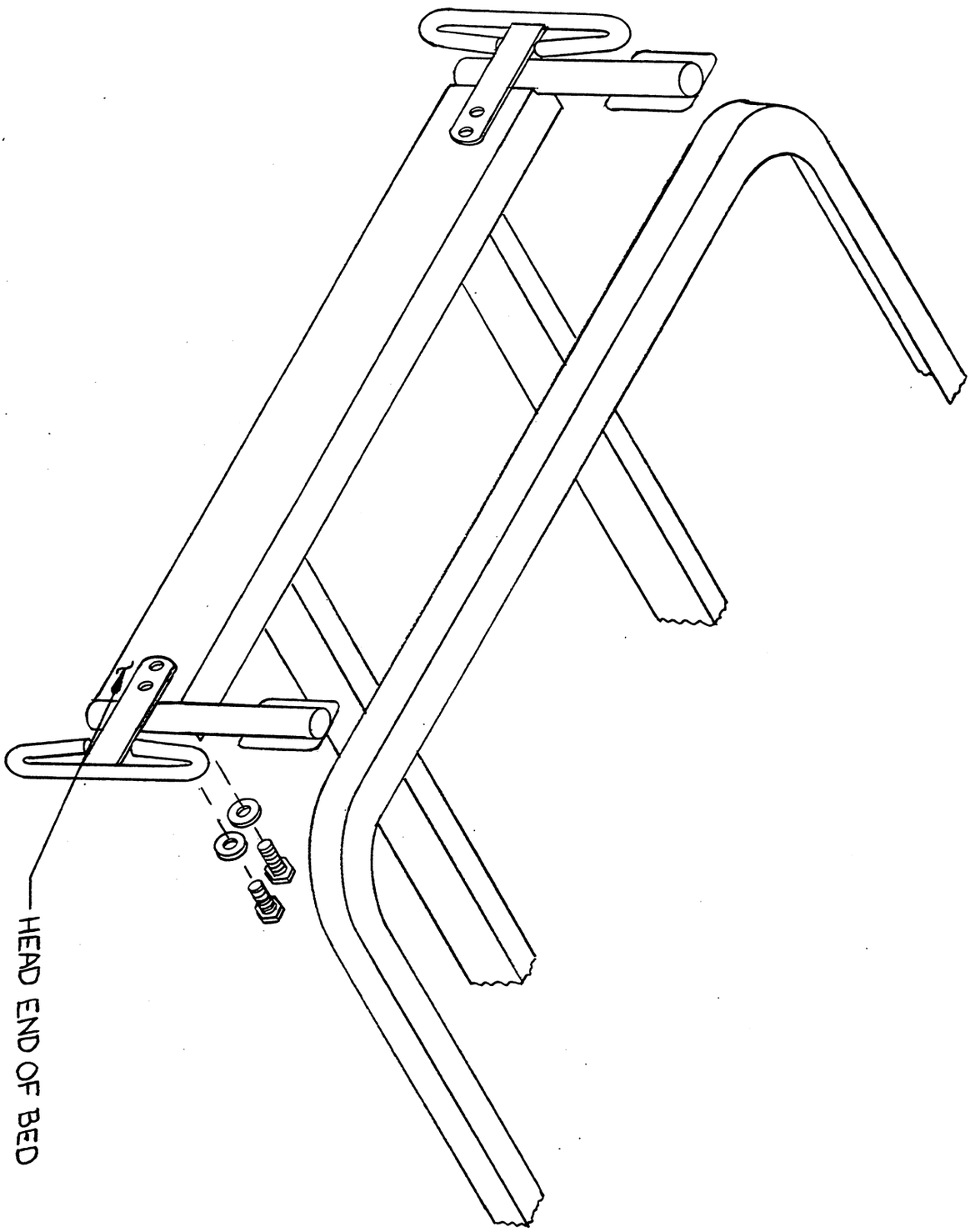

INSERT 1/4-20 SCREW (2) PROVIDED, INTO HOLES PROVIDED AND SECURE WITH 1/4-20 NUT (2) PROVIDED, TO PREVENT SIDE SLIPPAGE OF TRAPEZE USED.
HEAD END CHANNEL
TRAPEZE BRACKET
3/8-16 SCREW (4) PROVIDED
3/8-16 NUT (4) PROVIDED
LOWER FRAME

425 BED INSTALLATION

ROLLER BUMPER - ASSEMBLY INSTRUCTIONS - 818B

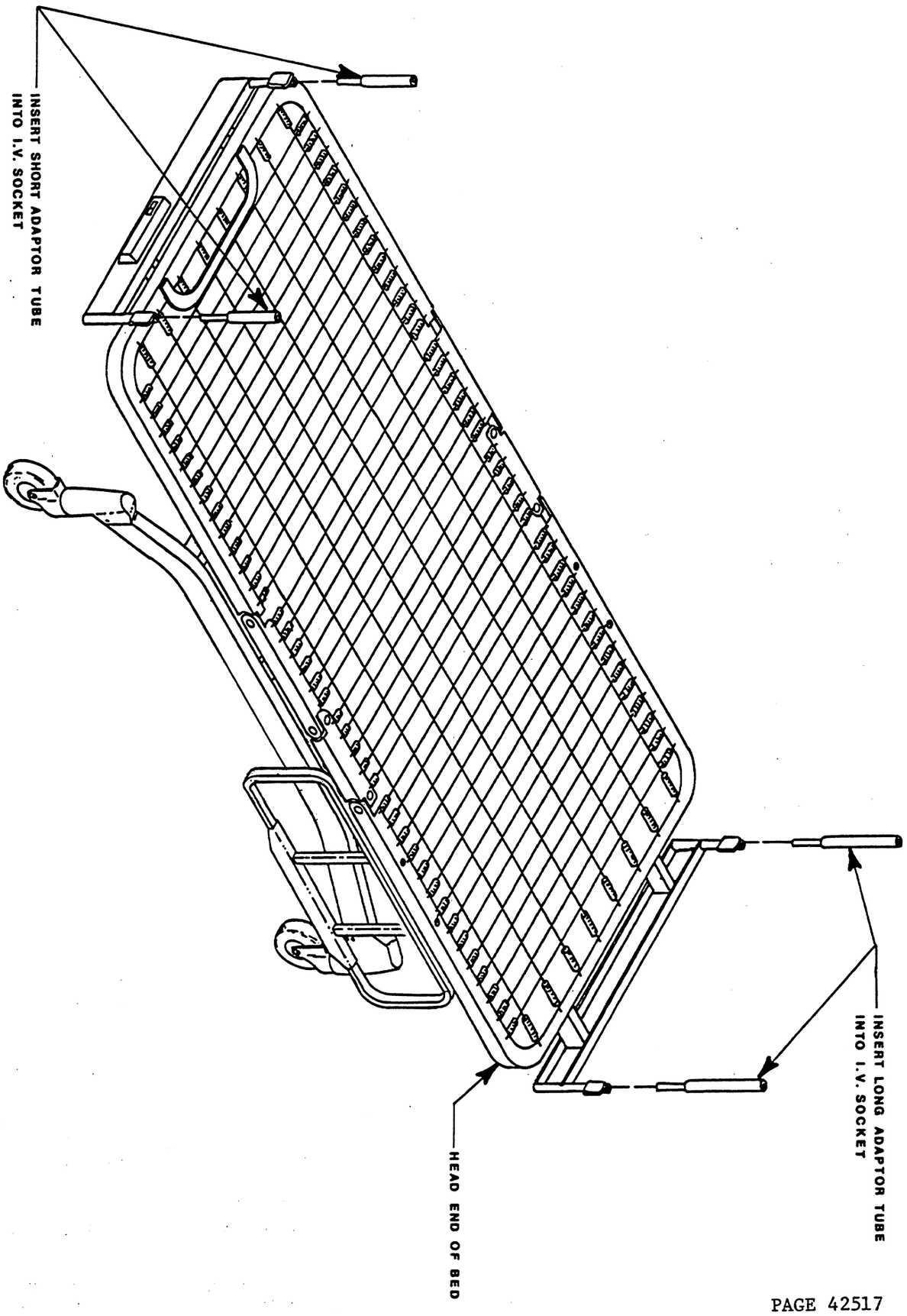

FACE MOUNT
1. To provide proper space if bed straddles wall plug.
TOP MOUNT
1. To reduce overall length of bed 2".
2. To allow #819 Arch. bumpers to be used along with #818B.
HEAD END OF BED

ARCHITECTURAL BUMPER ASSEMBLY INSTRUCTIONS - 819



FRACTURE FRAME ADAPTER SOCKETS - 847, 847A

Hill-Rom has two different fracture frame adapter socket sets available to handle most fracture frame equipment. The Model 847 sockets have a three-quarter (3/4) inch inside diameter while the 847A sockets have a one-half (1/2) inch inside diameter. Please specify which size is needed when ordering.



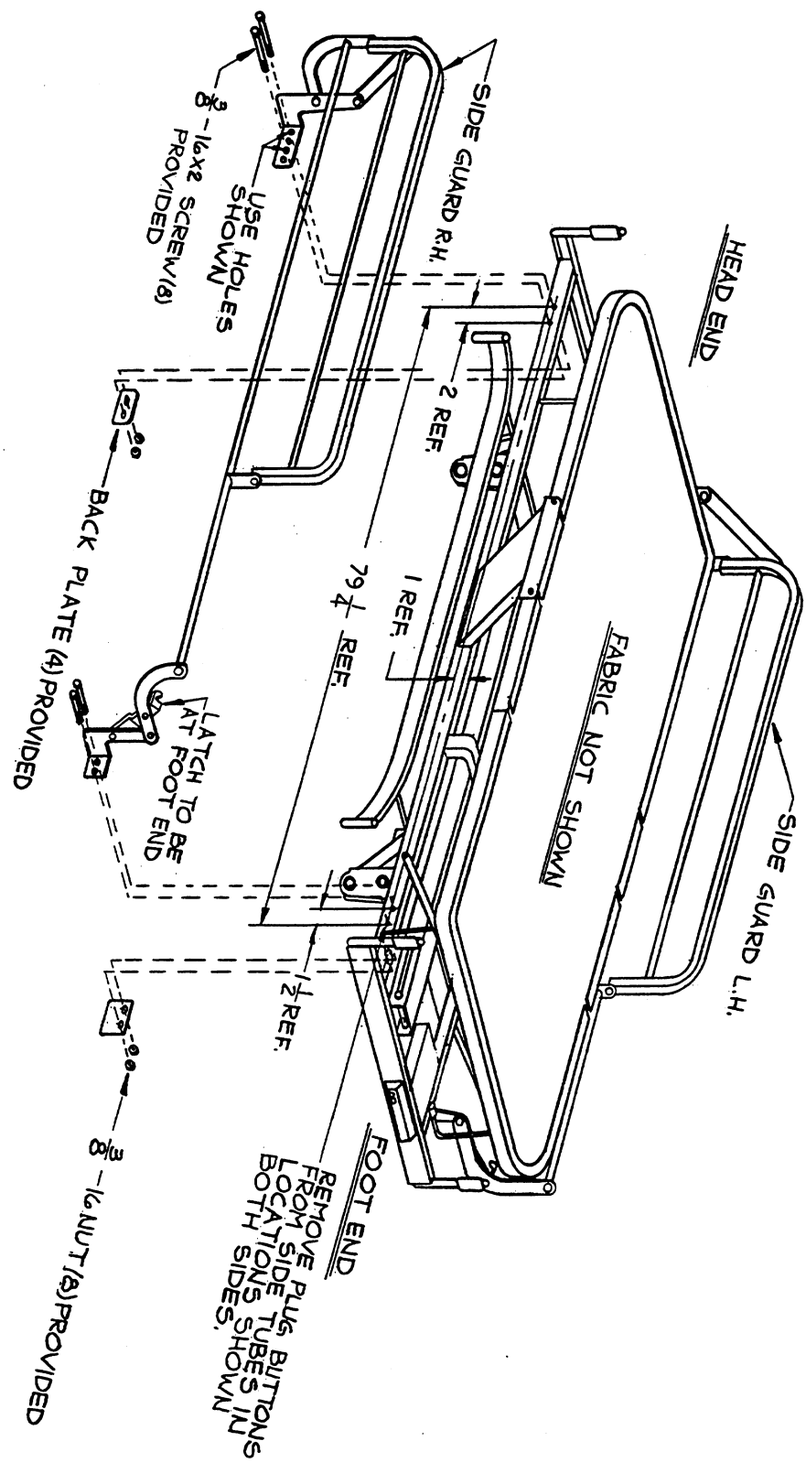
SIDEGUARD ASSEMBLY INSTRUCTIONS - 332 THREE-QUARTER LENGTH

1. Rotate the arms and the mounting brackets of the sideguard into the "up" position as shown in the diagram below.

2. Remove the plug buttons from the side tubes of the bed in the locations where the mounting brackets of the sideguard will mount. See the diagram below.

3. Place the sideguard mounting brackets against the side tube of the bed. Line up the holes and insert the four bolts through the mounting bracket and the side tube. Assemble the two back plates onto the protruding bolts on the inside of the side tube and secure the sideguard with four 3/8-16 locknuts as shown in the diagram below.

4. Repeat the procedure for the other sideguard.



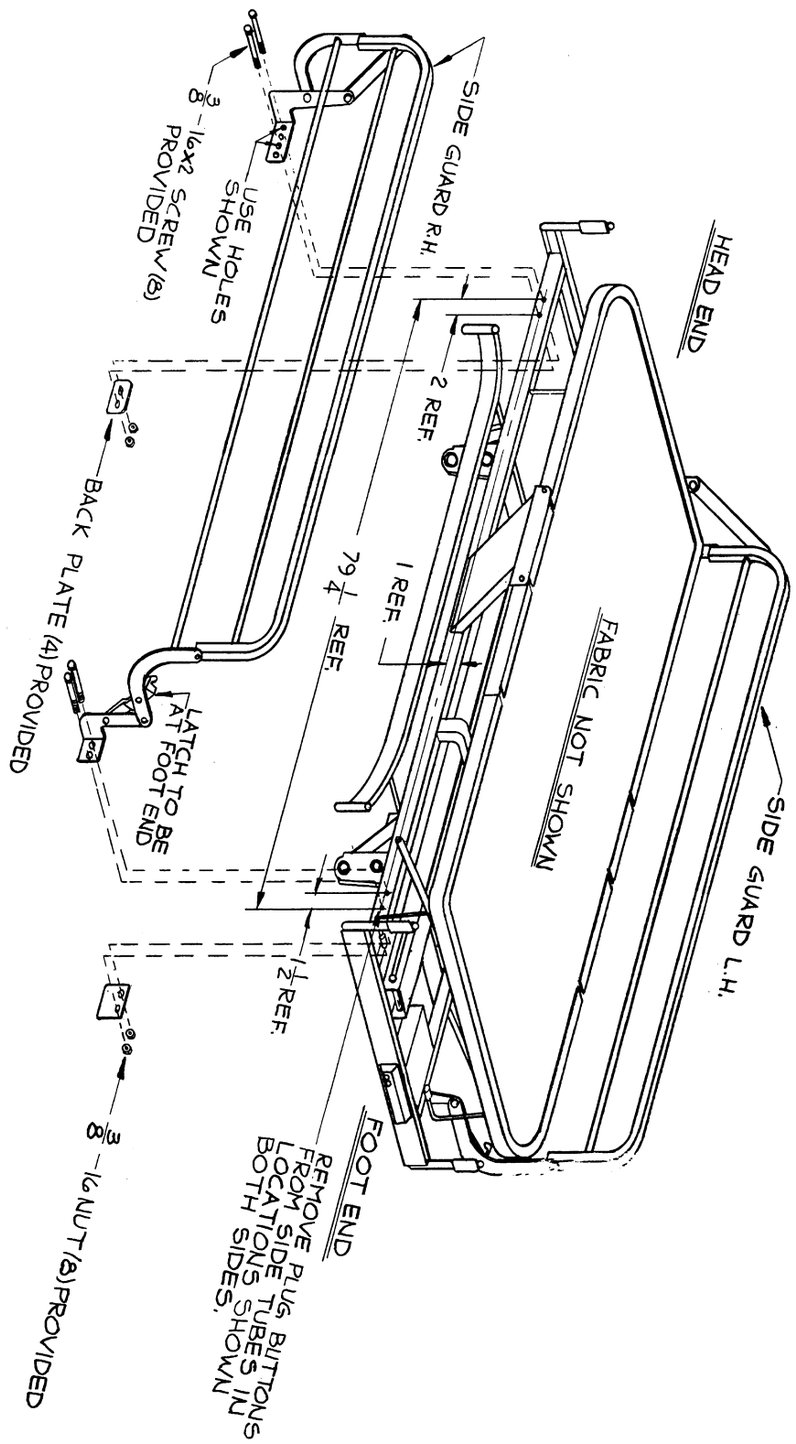
SIDEGUARD ASSEMBLY INSTRUCTIONS - 333 FULL LENGTH

1. Rotate the arms and the mounting brackets of the sideguards into the "up" position as shown in the diagram below.

2. Remove the plug buttons from the side tubes of the bed in the locations where the mounting brackets of the sideguards will mount. See the diagram below.

3. Place the sideguard mounting brackets against the side tube of the bed. Line up the holes and insert the four bolts through the mounting bracket and the side tube. Assemble the two back plates onto the protruding bolts on the inside of the side tube and secure the sideguard with four 3/8-16 locknuts as shown in the diagram below.

4. Repeat the procedure for the other sideguard.



FULL LENGTH SIDEGUARDS MODEL 333

SIDEGUARDS - NOT LOCKING IN UP POSITION

1. Raise the head section to the extreme "up" position.
2. Locate the stop tab, (See diagram "A").
3. Drive the tab up enough to allow the stop block to drop into the notch. (See diagram "B").
4. Lubricate the sideguard mechanism. (See "LUBRICATION REQUIREMENTS")

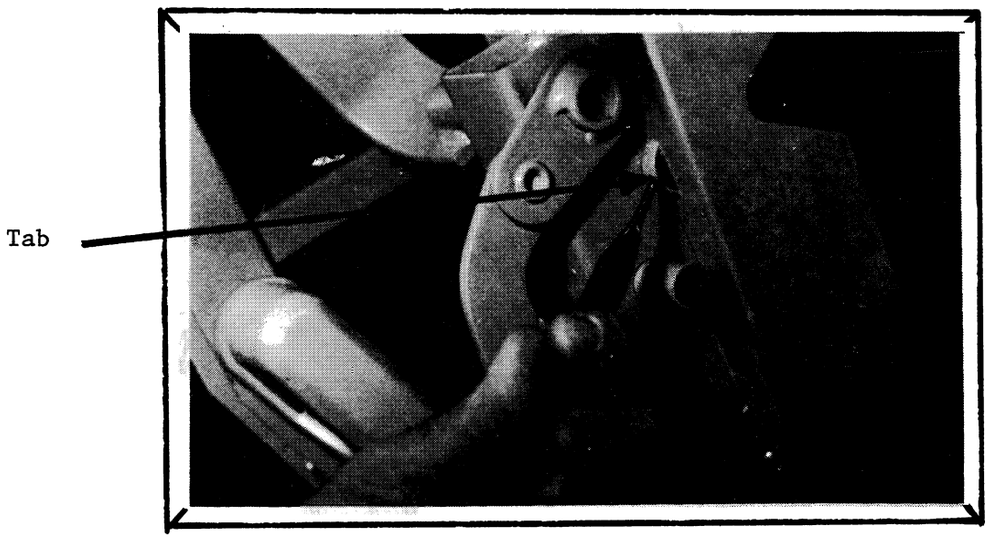


Diagram "A"

SIDEGUARDS - HARD TO ROTATE UP OR DOWN

1. Raise the head section to the extreme "up" position.
2. Using a cresent wrench, straighten the strap, (See diagram "B").
3. Make sure the slide rods (black), are parallel.
4. Clean and lubricate.

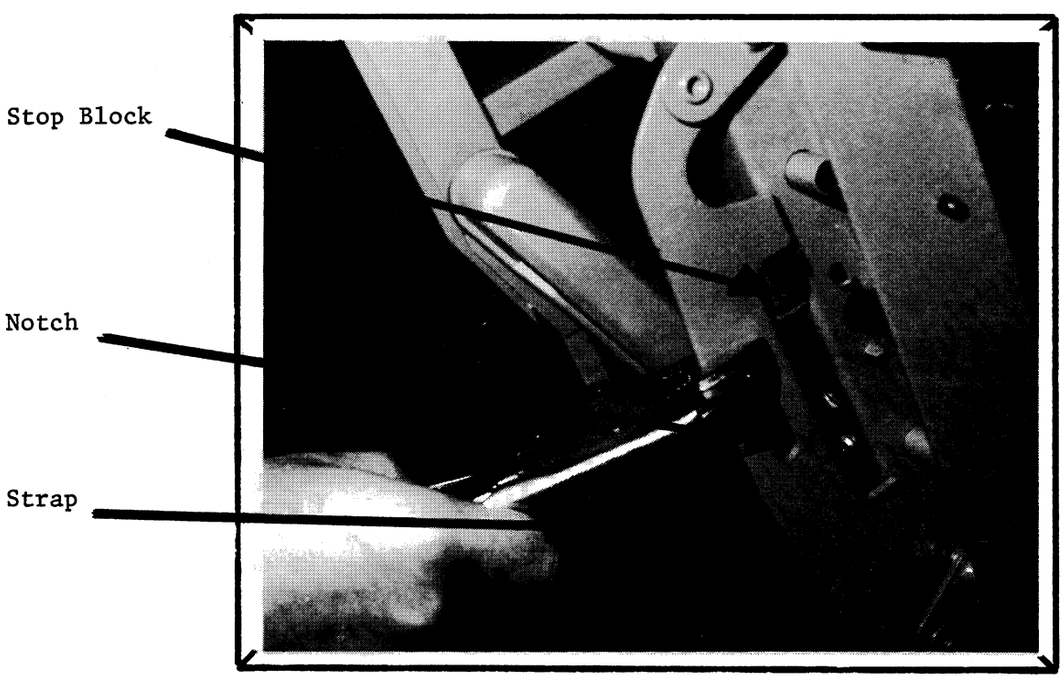


Diagram "B"

SIDEGUARD CONSTRUCTION

Hill-Rom's half-length sideguard frames are of welded construction so individual welded parts on the welded assembly are not offered as replacements.

SIDEGUARDS - HEAD END - HOW THEY WORK MECHANICALLY

Head end sideguards rotate towards the head end of the bed and should lock in the "up" position. There should be a certain amount of "play" in the mechanism. By depressing the "push" button, you can rotate the sideguard down until it stops at what we call the "intermediate stop". By depressing the button again, you can rotate the sideguard to the extreme "down" position. When the sideguard is completely down and only when it is completely down, you can slide the sideguard under the bed frame where it is conveniently stored away when going through narrow doorways, etc.

SIDEGUARDS - FOOT END - HOW THEY WORK MECHANICALLY

Foot end sideguards rotate towards the foot end of the bed and should lock in the "up" position. There should be a certain amount of "play" in the mechanism. By depressing the "push" button, you can rotate the sideguard all the way to the extreme "down" position. When the sideguard is completely down, and only when it is completely down, you can slide the sideguard under the bed frame where it is conveniently stored away when going through narrow doorways, etc.

SIDEGUARD REMOVAL

1. Raise the head section of the bed.
2. Remove two screws through the bed frame. (See diagram "A").
3. Reverse the procedure to reattach the sideguard to the bed.

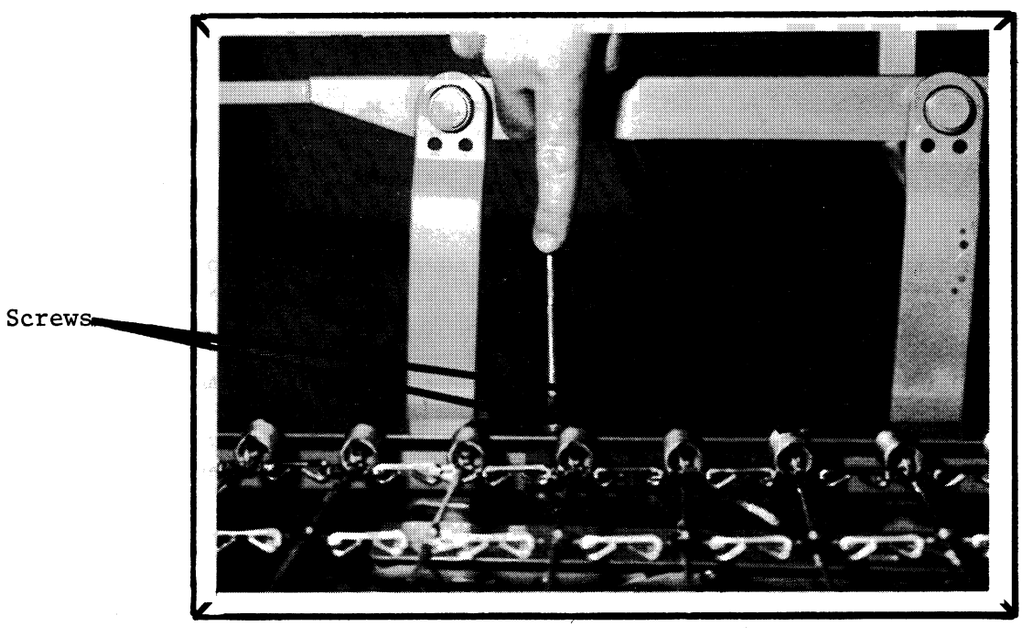


Diagram "A"

HILOW SCREW ASSEMBLY - REMOVAL

1. Raise the bed to its highest position.
2. Pull both the trendelenburg and the reverse trendelenburg knobs out and lower the bed until it stops moving down.
3. Fold the foot section up and back toward the head end of the bed in order to gain access to the drive unit.
4. Remove one (1) screw and nut from the extension tube of the drive (See diagram "A").
5. Remove one (1) nut and carriage bolt from the drive unit support tube (See diagram "B").
6. Remove one (1) cotter pin and clevis pin where the hilow screw assembly attaches to the straps and lower the screw assembly out of the bed. (See diagram "C").
7. Reassemble in reverse order.

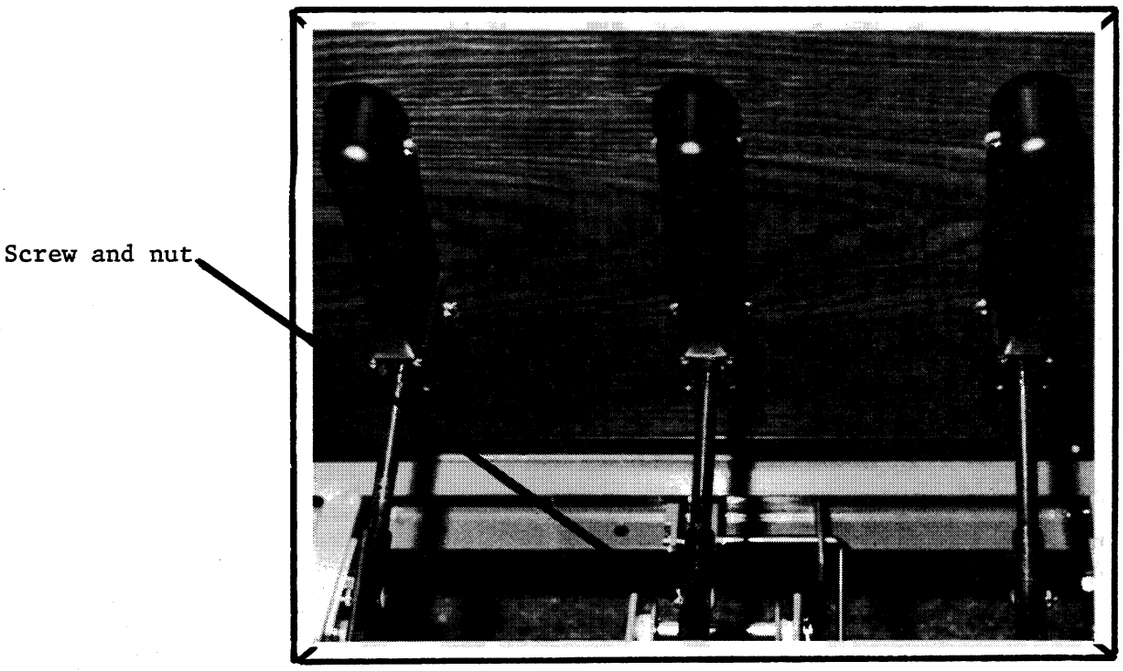


Diagram "A"

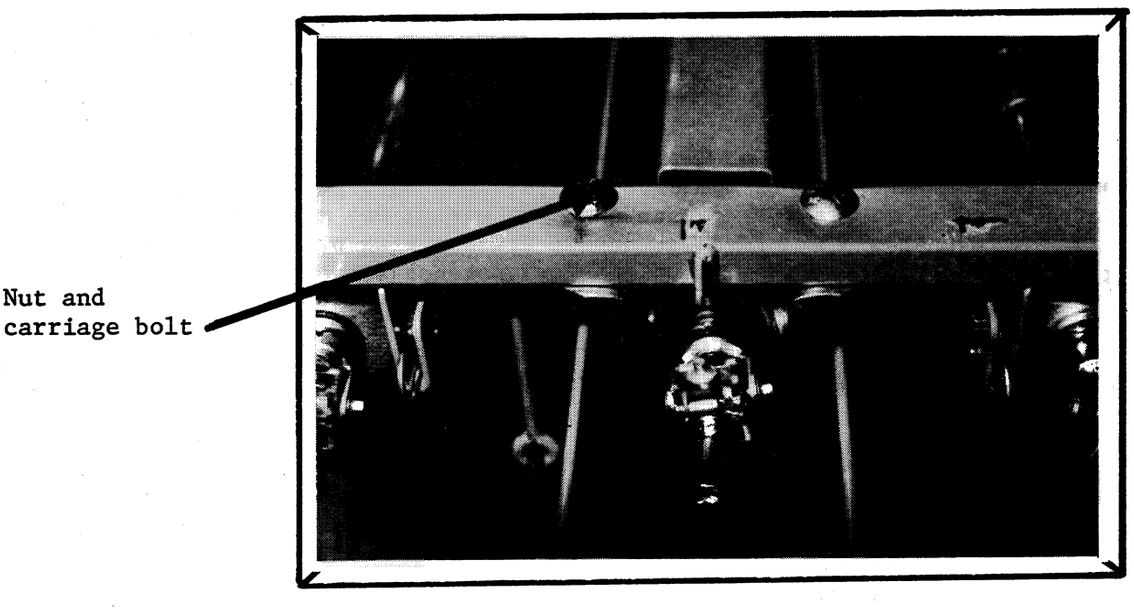


Diagram "B"

(Continued on following page)

HILOW SCREW ASSEMBLY - REMOVAL

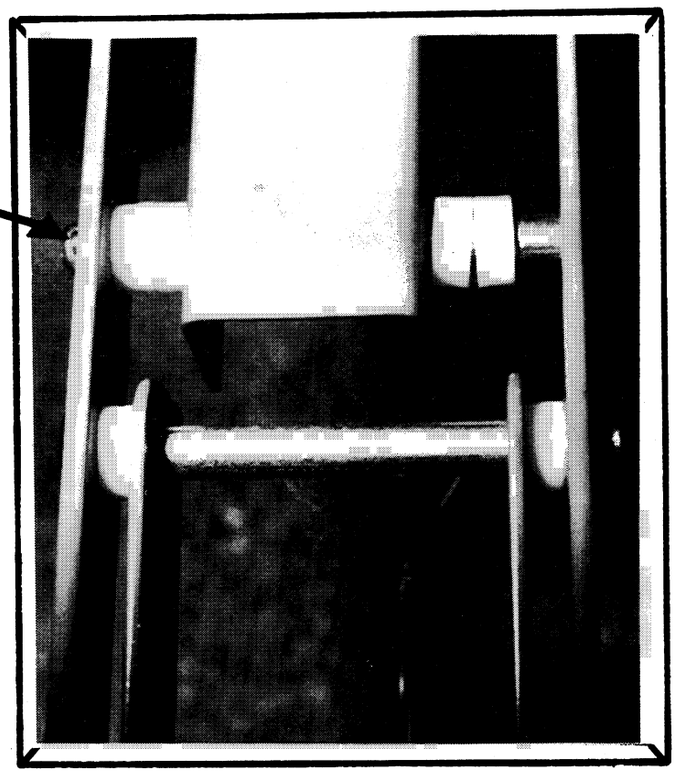


Diagram "C"

HILOW SCREW ASSEMBLY - DRIVE NUT REMOVAL

1. Remove the hilow screw assembly (See "HILOW SCREW ASSEMBLY - REMOVAL").
2. Remove four (4) screws holding the channel to the screw assembly (See diagram "A").
3. Remove one (1) roll pin near the end of the drive screw (See diagram "B").
4. Rotate the drive nut until it comes off the drive screw.
5. Replace the drive nut and reassemble everything in reverse order.

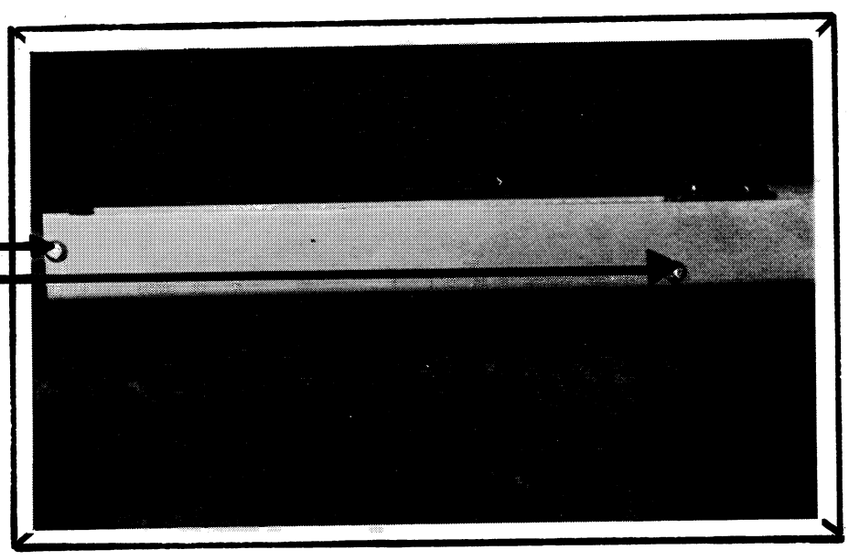


Diagram "A"

(Continued on the following page)

HILOW SCREW ASSEMBLY - DRIVE NUT REMOVAL

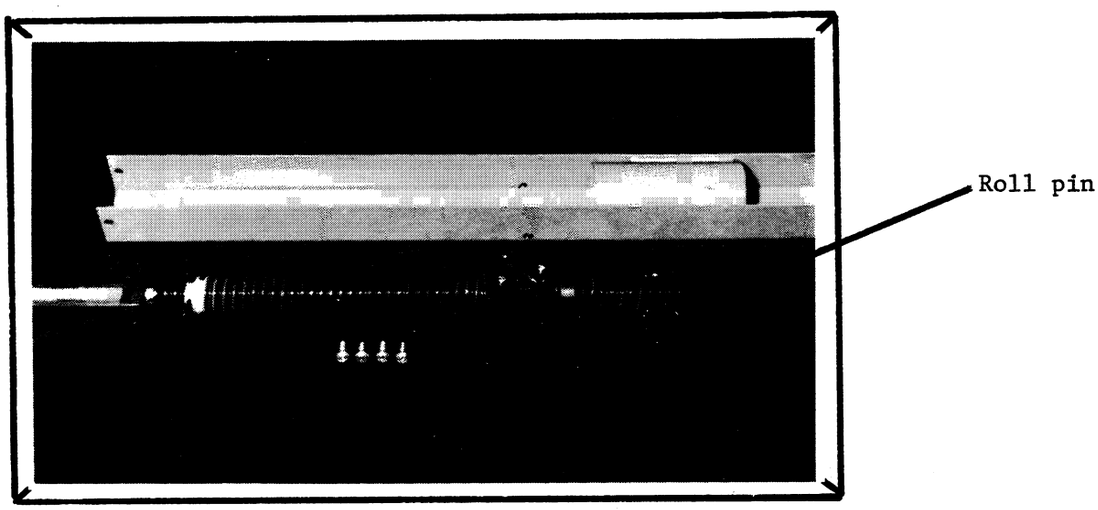


Diagram "B"

HILOW SCREW ASSEMBLY - THRUST BEARING REMOVAL

1. Remove the hilow screw assembly (See "HILOW SCREW ASSEMBLY - REMOVAL")
2. Remove the roll pin retainer and the roll pin and slide the collar off the shaft (See diagram "A").
3. Remove the bushing, brake spring, trunnion block and thrust race and replace the thrust bearing (See diagram "A").
4. Reassemble in reverse order.

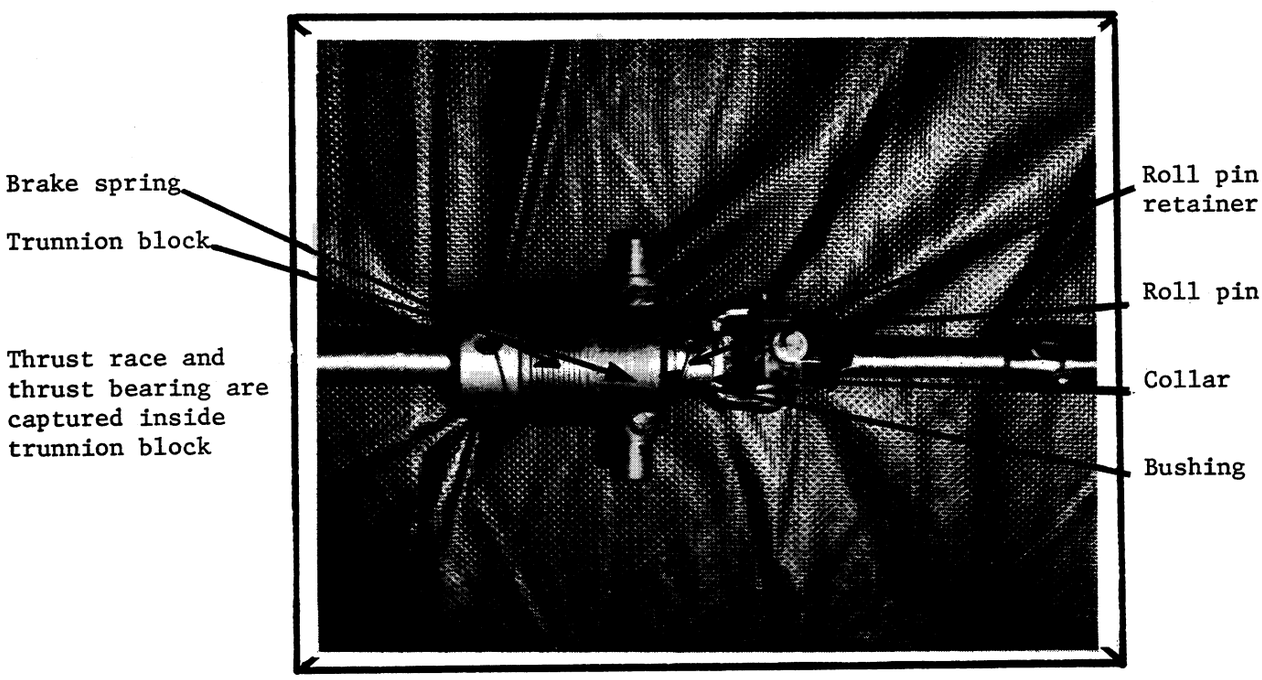


Diagram "A"

HILOW SCREW ASSEMBLY - DRIVE SCREW REMOVAL

1. Remove the hilow screw assembly (See "HILOW SCREW ASSEMBLY - REMOVAL").
2. Remove four (4) screws holding the channel to the screw assembly (See diagram "A").
3. Remove one (1) roll pin that attaches the drive screw to the solid steel shaft (See diagram "B").
4. Remove the drive nut by rotating it until it comes off the drive screw.
5. Replace the drive screw and reassemble everything in reverse order.

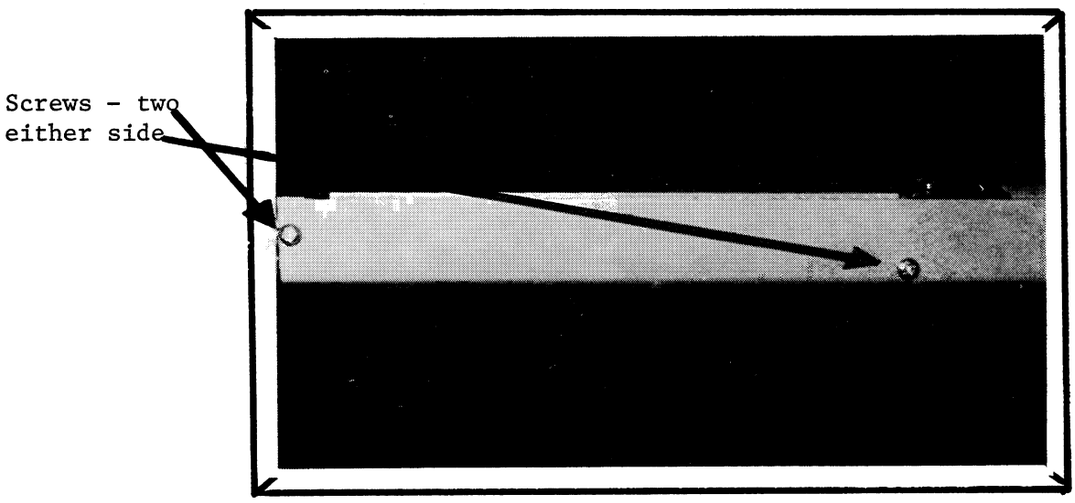


Diagram "A"

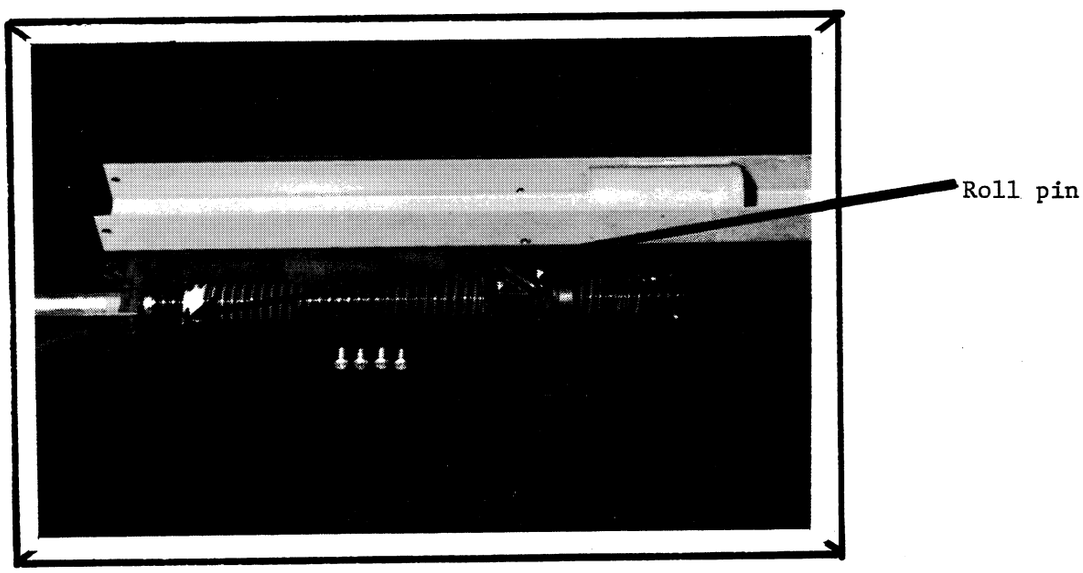


Diagram "B"

HEAD AND KNEE DRIVES - REMOVAL

1. Lower the head and knee drives to their lowest position and fold the foot section up and back toward the head end of the bed in order to gain access to the drives.

2. Remove one (1) screw and nut from the extension tube of the drive (See diagram "A").

3. Remove two (2) hairpins from the drive mounting plate. NOTE: There may be tension on the knee drive due to the weight of the foot section being folded back. Relieve this tension before removing the hairpins. (See diagram "B").

4. Remove the cotter and clevis pins that hold the end of the drive tube to the gussets (See diagram "B").

5. Reverse the procedure to reassemble.

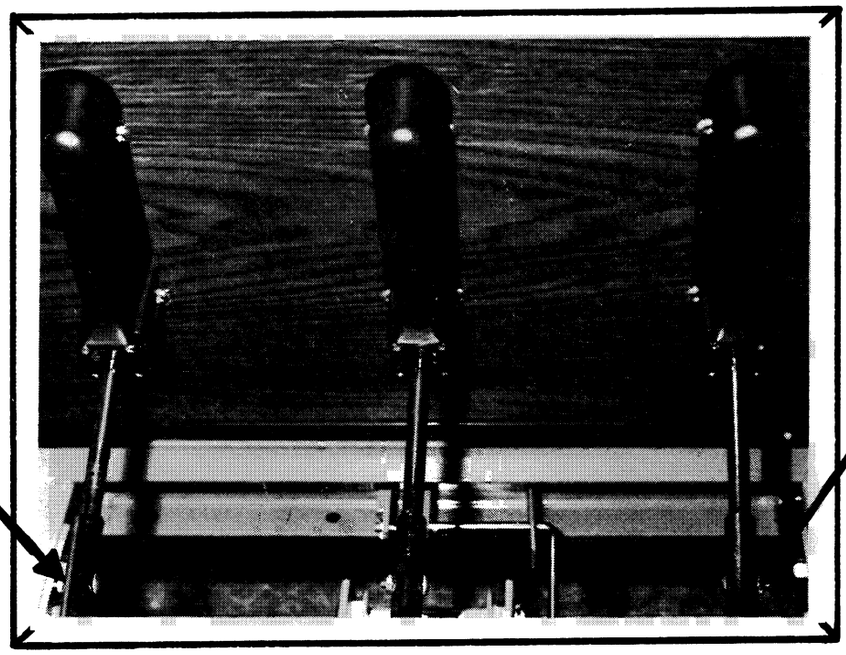


Diagram "A"

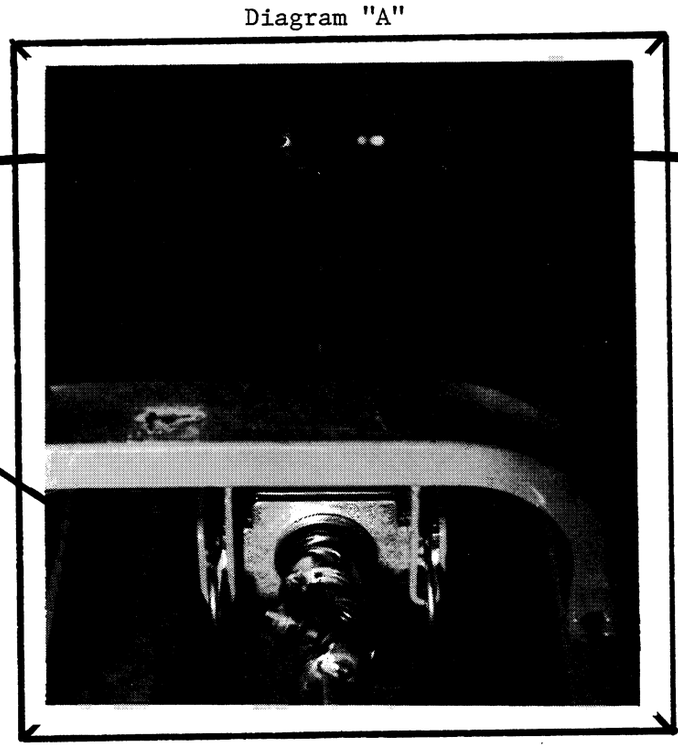


Diagram "B"
(Knee drive shown)

KNEE DRIVE - DRIVE NUT REMOVAL

1. Remove the knee drive (See "HEAD AND KNEE DRIVES - REMOVAL")

2. Remove the roll pin from the end of the drive screw. Access to the roll pin is through the large slot near the end of the drive tube (See diagram "A"). Just rotate the drive tube until the roll pin can be seen through the slot.

3. Remove the drive nut by rotating the drive tube until it comes off the drive screw.

4. When replacing the drive nut, the drive tube will also have to be replaced because of the method of manufacture. The drive nut is held tight in the drive tube by means of a non-reversible process called swaging.

5. Reverse the procedure to reassemble.

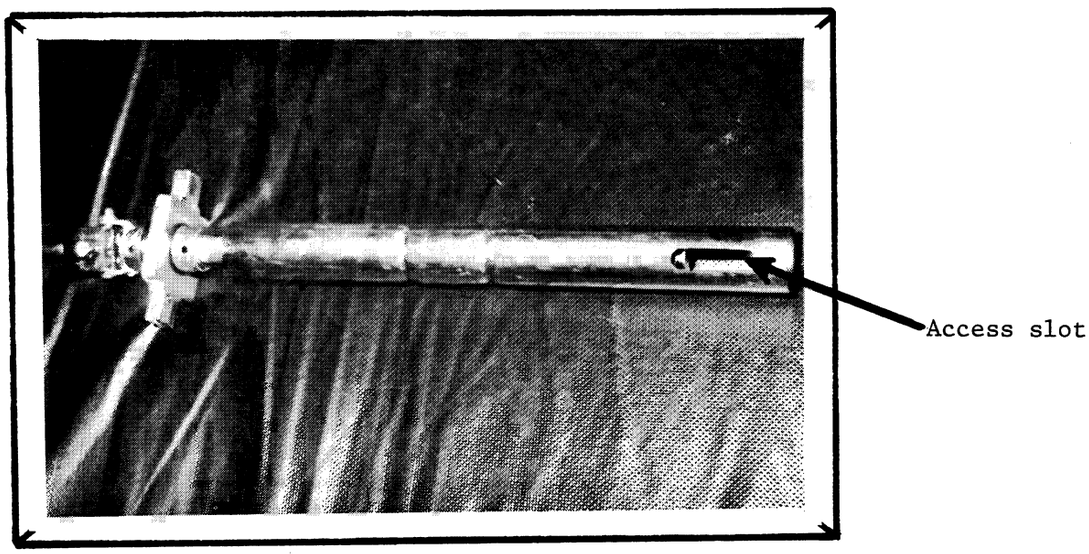


Diagram "A"

KNEE DRIVE - THRUST BEARING REMOVAL

1. Remove the knee drive (See "HEAD AND KNEE DRIVES - REMOVAL").

2. Remove the roll pin retainer and the roll pin and slide the collar off the shaft (See diagram "A").

3. Remove the washer, replace the thrust bearing and reassemble in reverse order. (See diagram "A").

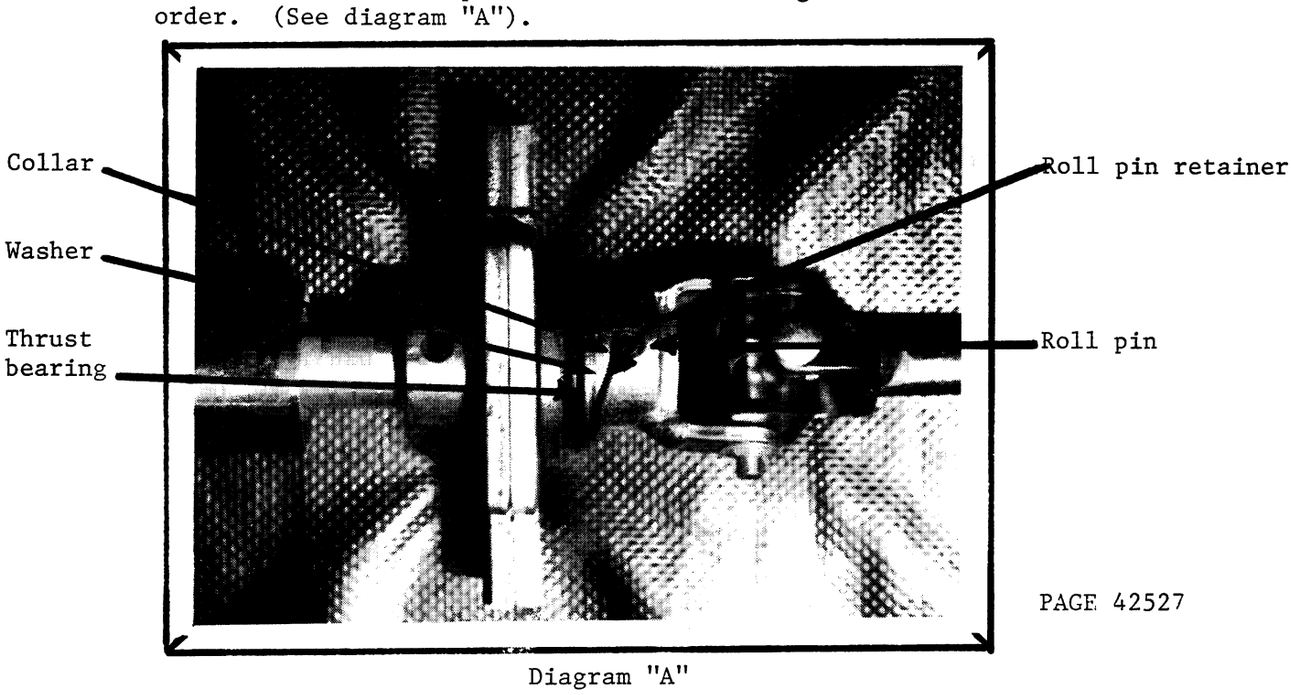


Diagram "A"

HEAD DRIVE - DRIVE NUT REMOVAL

1. Remove the head drive (See "HEAD AND KNEE DRIVES - REMOVAL").

2. Remove the roll pin from the end of the drive screw. Access to the roll pin is through the round hole near the end of the drive tube (See diagram "A"). Just rotate the drive tube until the roll pin can be seen through the hole.

3. Remove the drive nut by rotating the drive tube until it comes off the drive screw.

4. When replacing the drive nut, the drive tube will also have to be replaced because of the method of manufacture. The drive nut is held tight in the drive tube by means of a non-reversible process called swaging.

5. Reverse the procedure to reassemble.

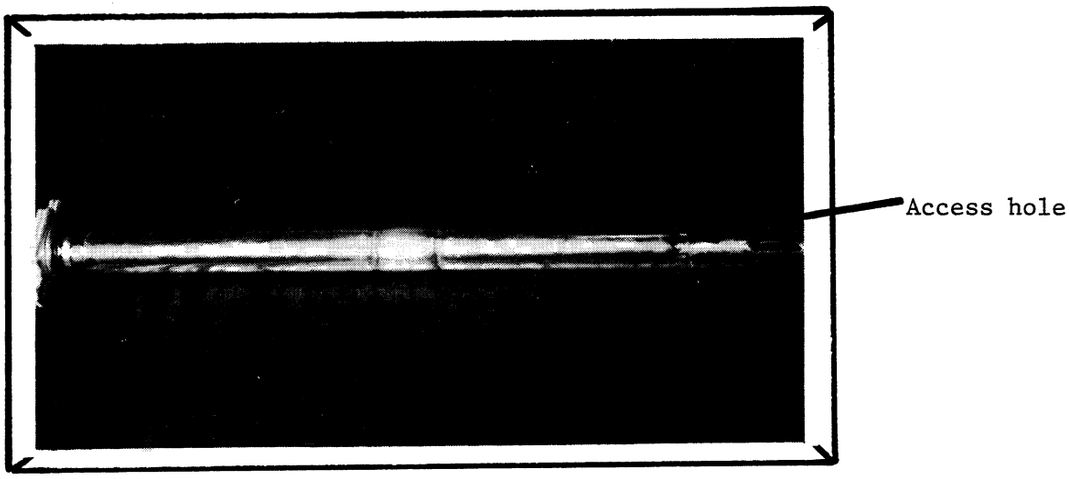


Diagram "A"

HEAD DRIVE - THRUST BEARING REMOVAL

1. Remove the head drive (See "HEAD AND KNEE DRIVES - REMOVAL").

2. Remove the roll pin retainer and the roll pin and slide the collar off the shaft (See diagram "A").

3. Remove the nylon washers, the wave washer, the mounting plates and the bearing and replace the thrust bearing. (See diagram "A")

4. Reassemble in reverse order.

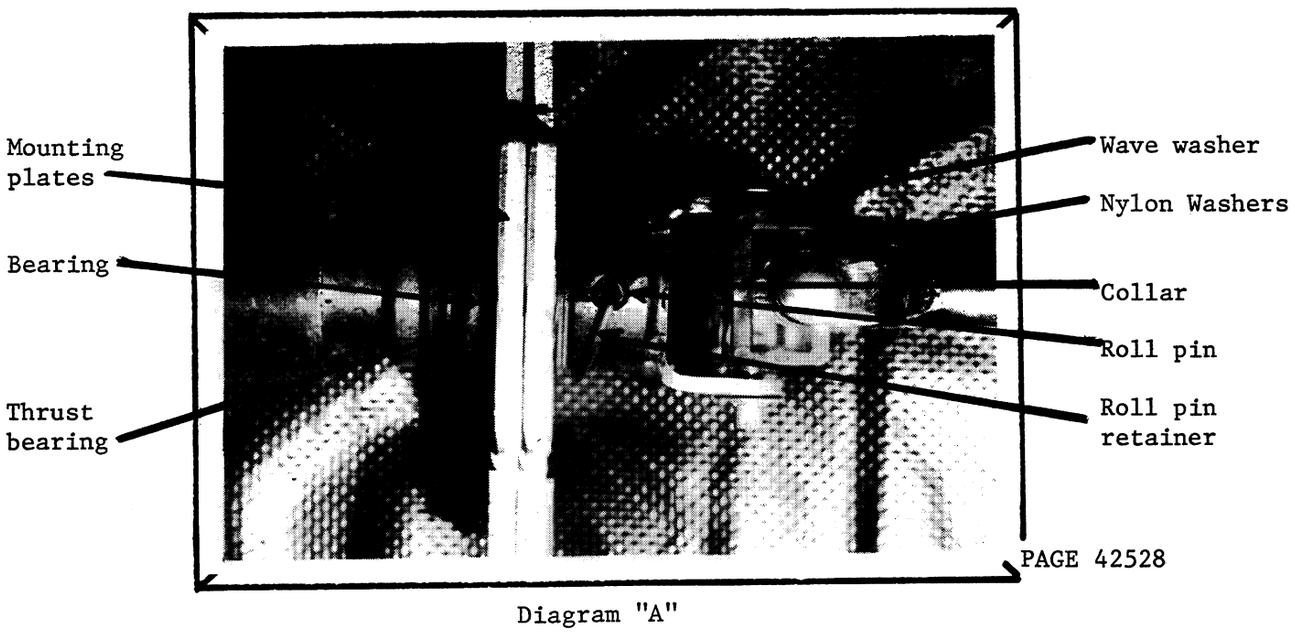


Diagram "A"

TRENDELENBURG - TROUBLE SHOOTING

1. If the bed completely lowers but does not go into trendelenburg or reverse trendelenburg, the mechanical linkage is not engaging properly. In order for either trendelenburg or reverse trendelenburg to work properly, the plated bracket must be wedged in between the two torque tubes when either knob is pulled out. (See diagram "A")

2. If both trendelenburg and reverse trendelenburg knobs are pulled out at the same time and the bed is lowered, the bed will go down about 3 to 4 inches and stop even though you continue to crank down. If this occurs, crank the hilow up until the bed raises to its full height. Pull either the trendelenburg or the reverse trendelenburg knob out and try again.

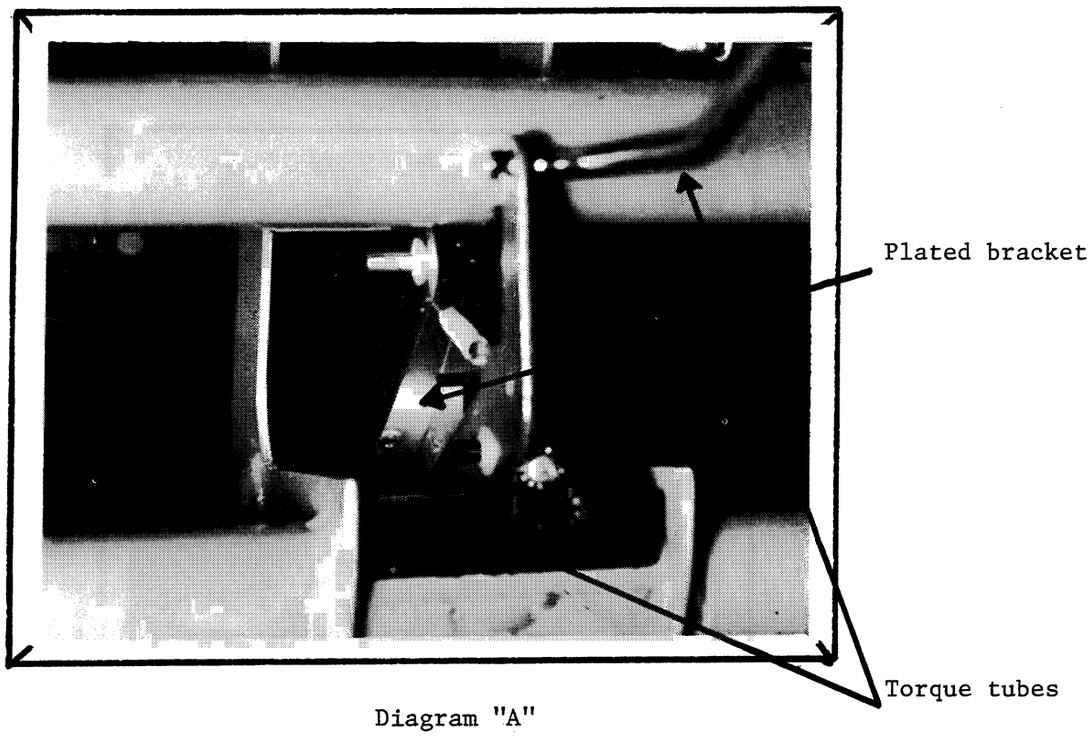


Diagram "A"

TRENDELENBURG - INDICATORS ADJUSTMENT

It may be necessary from time to time to adjust the indicator knobs for trendelenburg in order to give the correct readings for inches and degrees. This can be accomplished through the following steps.

1. Raise the bed to its highest position.

2. Pull both trendelenburg knobs out. (Located at the foot end of the bed).

3. Lower the bed until it stops going down.

4. Using a large pair of pliers or a channel locks, turn the four (4) indicator knobs until their arrows point to "0" on the corresponding labels.

5. Raise the bed up until it stops and your indicators should be set for accurate readings.

TRENDELENBURG - ASSEMBLY REMOVAL

1. Raise the bed to its full height.
2. Remove the small cotter pin and slide the rod out of the lever. (See diagram "A")
3. Remove one (1) screw (see diagram "A"). This will allow the plastic pieces to come apart. (When the screw is removed, a square nut will fall out of the assembly).
4. Remove the assembly and repair or replace the parts as needed.
5. Reverse the procedure to reinstall. (If you have difficulty figuring which parts go where, there is an identical trendelenburg assembly located at the opposite end of the bed).

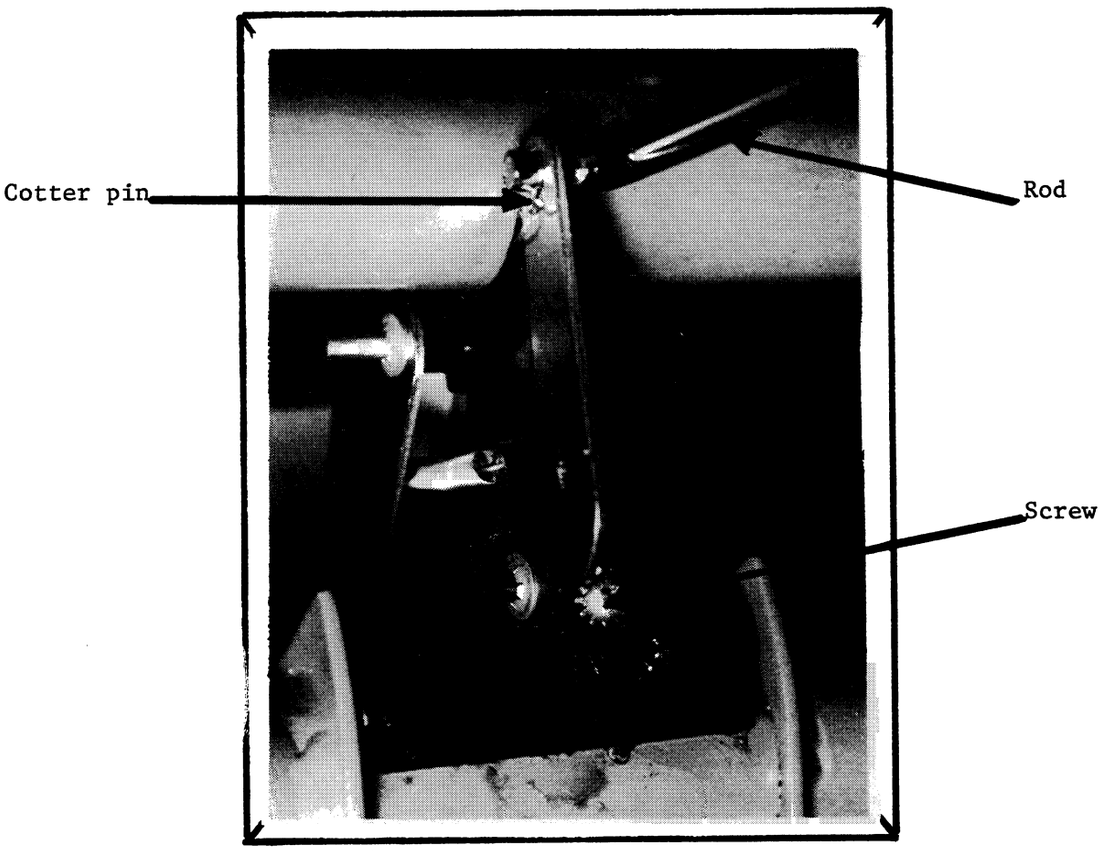


Diagram "A"

ENVIRO-CARE COMPATABILITY

To enable the 425 bed to be used with Enviro-Care, neither the three-quarter length Model 332, nor the full length Model 333 sideguards can be used. The half length sideguards Model 328 for the head end and Model 325 for the foot end can be used in conjunction with Enviro-Care.

Also, the roller bumpers Model 818 are not compatible with Enviro-Care. The Model 819 architectural bumpers were designed for this purpose and are a suitable alternative when used with this system.

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